Exhibit 1

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		1	
1	BY MR. BOYEA: 9:39AM	1	for this topic for four different apps. 9:42AM
2	Q And is your testimony that you only have	2	So we'll just put that objection in and
3	vague knowledge of casting?	3	we'll resolve that off the record.
4	MR. KAPLAN: Object to form, misstates	4	Q So, Mr. Mo, if you turn to the following
5	testimony. 9:39AM	5	page, you'll see starting at Line 5 through 8 there 9:42AM
6	THE WITNESS: My answer was in particular	6	is some discussion of an "up next" feature and an
7	to these steps that are in front of me.	7	"autoplay" feature.
8	BY MR. BOYEA:	8	Let me know once you're there.
9	Q Okay. Let's move on to starting at	9	A I'm there.
10	Line 10 of that same page that you're looking at. 9:39AM	10	Q Can you go ahead and review the screenshot 9:42AM
11	There is discussion of, quote/unquote,	11	that starts at Line 10?
12	stream transfer a feature that Google refers to as	12	A Okay. I've seen that screenshot.
13	"stream transfer."	13	Q Are you familiar with the feature that
14	Are you familiar with stream transfer?	14	Google refers to as "up next"? And specifically up
15	A Can you clarify what "stream transfer" is 9:39AM	15	next suggests additional content based on whatever 9:43AM
16	exactly?	16	you're currently watching.
17	Q If you could read what is set forth their	17	Are you familiar with that feature?
18	starting at Lines 14, this is Google's own	18	A I have seen the feature.
19	documentation referring to stream transfer.	19	Q You've seen the feature.
20	Go ahead and give that a read and let me 9:40AM	20	
21	know if you're familiar with what stream transfer	21	next feature is implemented in Google's system?
22		22	A No, I'm not able to.
23	A Line 14 references a blog.	23	MR. BOYEA: All right. Sonos is going to
24	Q Yes.	24	object once again because Mr. Mo is designated on
25	A Do you want me to read that? 9:40AM Page 22	25	this topic for four different YouTube apps. 9:43AM Page 24
	1.482.22		
1	Q There is a screenshot below starting at 9:40AM	1	MR. KAPLAN: Well, very quickly, Mr. Mo is 9:43AM
2	Line 15, if you could read that screenshot that	2	designated on these topics as they relate to casting
3	refers to "stream transfer." Read it to yourself	3	functionality for four different apps.
4	and let me know if you're familiar with what is	4	MR. BOYEA: Yes, I understand that. They
5	being referred to as a stream transfer feature. 9:40AM	5	are part and parcel of one another. 9:44AM
6	A What lines should I stop reading?	6	But we'll have to figure this out off the
7	Q What lines did you read?	7	record. So
8	A Fourteen through 23.	8	MR. KAPLAN: You can object now, but I
9	Q I think that's sufficient.	9	think as we get into questions, I think some of this
10	Are you familiar with the stream transfer 9:41AM	10	is going to be sorted out. So let's continue and 9:44AM
11	feature that's referred to in those lines?	11	short circuit any questions on sort of functionality
12	A I have heard of the word "stream transfer."	12	as to these topics.
13	Q You've heard of it.	13	MR. BOYEA: Marc, but you know you guys
14	Are you familiar with the functionality	14	designated him for all of these topics for four
15	that enables that feature to be used by a user? 9:41AM	15	different apps. I'm going to have a very short 9:44AM
16	MR. KAPLAN: Object to form.	16	amount of time to ask him questions and I'm having
17	THE WITNESS: Can you clarify what do you	17	to spend this time being told that he doesn't know
18	mean by being familiar with?	18	information regarding these topics.
19	BY MR. BOYEA:	19	So I'm going to have to prioritize what I
20	Q Are you going to be able to tell me how 9:41AM	20	ask because he's telling me he doesn't know about 9:44AM
21	that feature is actually implemented?	21	these features.
22	A I'm not. I do not know how stream transfer	22	MR. KAPLAN: He knows about cast. That's
23	works underneath the	23	what he's been designated on. I think if you ask
24	MR. BOYEA: Okay. So Sonos is going to	24	those questions that you had planned to ask for
25	object obviously, Marc, because Mr. Mo is designated 9:42AM	25	cast, then we're going to cover these topics 9:45AM
1	Page 23	1	Page 25

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1	sufficiently. 9:45AM	1	casting. 9:48AM
2	But please continue.	2	Q Yes. So before casting.
3	BY MR. BOYEA:	3	A Before casting, I'm not familiar with
4	Q Mr. Mo, if you look at the bottom of the	4	autoplay.
5	page that you're at, there is another screenshot 9:45AM	5	Q And what about after casting, are you 9:48AM
6	called "Autoplay videos."	6	familiar with autoplay?
7	Do you see that?	7	A It depends on which I would need you to
8	A I see the section. Is there a screenshot	8	clarify again where what part of the YouTube
9	that you wanted me to look at?	9	experience you're referring to.
10	Q Yes. It starts at Line 24, 25. There is 9:45AM	10	Q I'm not sure I know what other context I 9:48AM
11	a screenshot that's titled "Autoplay videos."	11	need to give you.
12	A Okay. I see it.	12	So in the context of casting YouTube to a
13		13	receiver device, are you familiar with how the
14	being described in this screenshot?	14	autoplay feature is implemented?
15	A The screenshot being the text about 9:45AM	15	A On which device? 9:49AM
16		16	Q Are there multiple devices that autoplay
17		17	would be implemented on?
18		18	A Yes, depending on the context once again.
19	from, it's hard to know which specific context	19	Q In the context of casting YouTube to a
20	autoplay is for. 9:46AM	20	receiver, what other context do you need to know to 9:49AM
21	Q So it describes here in the screenshot,	21	be able to answer my question?
22	"The autoplay feature on YouTube."	22	A Just which client do you want to know about
23		23	autoplay for that particular use case?
24	feature on YouTube?	24	Q When you say "client," what do you mean by
25		25	the term "client"? 9:49AM
	Page 26		Page 28
1	Q Are you going to be able to explain how 9:46AM	1	A Sender or receiver. 9:49AM
2	the autoplay feature is implemented on the YouTube	2	Q So we're going to get into some
3	apps?	3	terminology, so maybe this is good.
4	A Which YouTube app specifically?	4	Can you explain to me what you mean by
5	Q Let's start with the YouTube main app or 9:46AM	5	"sender"? 9:50AM
6	just the YouTube app.	6	A Sender is what I refer to as YouTube client
7	Are you familiar with how the autoplay	7	such as a mobile device where a user may cast from.
8	feature is implemented in that app?	8	The receiver device, the receiver client
9	MR. KAPLAN: Object to form.	9	is the device for the client that the user is
10	THE WITNESS: Is there a specific context 9:47AM	10	casting to. 9:50AM
11	within which the app is used?	11	Q Okay. And in this context I want to make
12	BY MR. BOYEA:	12	sure I understand what the receiver is. Is that in
13	Q Whether it's casting or not casting.	13	a Chromecast device?
14	MR. KAPLAN: Object to form.	14	A That can be one.
15	THE WITNESS: So you're asking 9:47AM	15	Q Okay. And would that would a receiver 9:50AM
16	specifically about apps on a particular surface?	16	be any Nest Smart speaker?
17	BY MR. BOYEA:	17	A Yes. Some Nest speakers are considered to
18	Q I'm asking yes, let's start with when	18	be a receiver device.
19	YouTube is being run on a phone, for instance, are	19	Q You said, "Some Nest speakers are
20	you familiar with how the autoplay feature is 9:47AM	20	considered to be speaker devices." 9:51AM
21	implemented?	21	What Nest speakers are not considered
22	A I need more specific context in addition to	22	receiver devices?
23	that.	23	A I don't know off the top of my head.
24	Q What else, what other context do you need?	24	Q So are you able to think of any Nest
25		25	speaker that would not be considered a receiver 9:51AM
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1	device? 9:51AM	1	THE WITNESS: Sorry about that. 9:56AM
2	A Not that I am aware of right now.	2	MR. BOYEA: No problem.
3	Q So would you agree with me that a Nest	3	Q So I asked previously: What code have you
4	Mini, Nest Audio, Nest Hub and Nest Hub Max would be	4	written that deals with casting?
5	considered a receiver device? 9:52AM	5	A Do you have any specifics in mind? Since 9:56AM
6	MR. KAPLAN: Object to form.	6	that's pretty broad.
7	THE WITNESS: When they are being used in	7	Q Sure. You mentioned sender and receiver
8	casting, yes.	8	before. So let me start with: Have you written
9	BY MR. BOYEA:	9	sender side code for casting?
10	Q Would you agree with me that a Home Mini, 9:52AM	10	A For YouTube on the YouTube clients. 9:56AM
11	Home, Home Max and Home Hub are considered to be	11	Q And when you say "for YouTube," are you
12	receiver devices when used in casting?	12	referring specifically to the YouTube main app or
13	A Yes, I would refer to those as receiver	13	more generally to the YouTube apps that I understand
14	devices.	14	there are four at least four different YouTube
15	Q I know you said yes to Chromecast earlier, 9:52AM	15	apps? 9:57AM
16	but would a Chromecast, Chromecast Audio, Chromecast	16	MR. KAPLAN: Object to form.
17	Ultra and Chromecast with Google TV be considered a	17	THE WITNESS: What are the four YouTube
18	receiver in casting?	18	apps once again?
19	A Yes, they can be referred to as receivers.	19	BY MR. BOYEA:
20	Q And then what about the Nest WiFi Point, 9:53AM	20	Q So you're familiar with the YouTube main 9:57AM
21	would that be considered a receiver when casting?	21	app; correct?
22	A I'm aware of one Nest WiFi that can act as a	22	A I am, yes.
23	receiver device.	23	Q And that's typically more generally just
24	O And is that the Nest WiFi Point?	24	referred to as the YouTube app; isn't that right?
25	A I'm not familiar with the actual names, the 9:53AM	25	A That can be the case, yes. 9:57AM
25	Page 30		Page 32
1	official names. 9:53AM	1	Q And you're familiar with the YouTube Music 9:57AM
2	Q Okay. So you used the term "sender"	_	app; correct?
3		3	
4	A Yes, I've heard of Nest Hubs.	4	
5	Q Is a Nest Hub device, can it be considered 9:53AM	5	correct? 9:57AM
	a sender when casting?	6	A Yes.
7	A No. I don't I would not refer to it as a	7	
0	sender.		correct?
0			
9	Q Okay. So I'm going to get back to these	9	
10		10	
11	Now, are you familiar with the source code	11	Q You know, you might have cut out in the
12	that enables the casting functionality in Google's	12	middle of that question. Can you just repeat it?
13	products?	13	A I was asking you to clarify if there are
14	A Can you please speak more specific?	14	certain devices of which these apps are running on
15	Q Sure. Have you do you write source 9:55AM	15	that you're asking about. 9:58AM
16	code for the casting functionality?	16	Q At this point I'm just trying to you
17	A Yes, I have written code that deals with	17	asked me to go over the four YouTube apps with you,
17	casting.	18	agnostic to what they are running on. The last one
17		10	I'm asking about is the YouTube TV app. I'm just
	Q And what code have you written that deals	19	
18	Q And what code have you written that deals with casting? 9:55AM	20	making sure you have an understanding of the four 9:58AM
18 19	•		making sure you have an understanding of the four 9:58AM YouTube apps I'm referring to?
18 19 20	with casting? 9:55AM	20	
18 19 20 21	with casting? 9:55AM A I'm sorry, something triggered within my	20 21	YouTube apps I'm referring to? A I am aware of those products, yes.
18 19 20 21 22	with casting? 9:55AM A I'm sorry, something triggered within my house that is playing sound. Can I disable that?	20 21 22	YouTube apps I'm referring to? A I am aware of those products, yes.
18 19 20 21 22 23	with casting? 9:55AM A I'm sorry, something triggered within my house that is playing sound. Can I disable that? Q Yes. Go ahead.	20 21 22 23	YouTube apps I'm referring to? A I am aware of those products, yes. Q When I refer to the YouTube apps in this

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1	A Okay. 9:58AM	1	Δ	I don't know. 10:02AM
2	Q You previously said that you haven't	2		What was Ruth's last name?
3	written sender side code for YouTube on YouTube	$\frac{2}{3}$	-	I actually don't have I don't know from
		4		of my head.
	My follow-up question to that is: The 9:59AM	5	•	Was there anyone else that was at the 10:02AN
5			-	•
	YouTube code that you've written, is it for one of	6	,	Yes.
	these one of the four YouTube apps or is it for	7		Who else?
	multiple of them?	8	-	
9	A The code I've written, it can be for it	9		Neema.
	can be for any YouTube clients that want the sender 9:59AM	10		Anyone else? 10:02AM
	features, sender capability.	11		Marc.
12	Q Have you sorry, I didn't mean to	12		Anyone else?
	interrupt you.	13		Patrick.
14	Have you written code for the receiver	14	_	Is Patrick, what was his last name?
15		15		I don't, again, recall right now. 10:03AM
16	A I've written receiver side MDX-related	16		Anybody else?
	functionality.	17		Met with Chaoren Li.
18	Q You used the term "MDX." What is MDX?	18		Could you spell that for the record?
19	A It's what we within YouTube, that's what we	19		Yes, C-H-A-O-R-E-N, L-I.
20	refer to as the stack that supports more or less 10:00AM	20	_	Who is Chaoren Li? 10:03AM
21	casting. It's a stack that supports casting features.	21		He is an engineer.
22	Q Is there a let me strike that. I'll	22	-	Is he an engineer at Google?
23	return to that question later.	23		Yes.
24	So I want to shift gears just a little bit	24		What is his role at Google?
25	and ask you what you did to prepare for the 10:00AM Page 34	25	A	He is an engineer at YouTube. 10:04AM Page 30
1	deposition today. 10:01AM	1	Q D	Ooes he work on sender devices? 10:04AM
2	Let me first start by asking: Did you	2	A I	don't know how to answer that. From the
3	have any meetings in preparation for your deposition	3	top of my	y head, I don't know.
4	today?	4	Q S	o you understand that Mr. Li works on
5	MR. KAPLAN: You can answer that yes or 10:01AM	5	YouTube	e, but you don't know if he works on sender 10:04AM
6	no.	6	devices.	Is that fair?
7	THE WITNESS: Yes.	7	A I	can't answer how much or little experience
8	BY MR. BOYEA:	8	he has ha	ad on the sender side.
9	Q When did those meetings take place?	9	Q V	Vas there anybody else that was at the
10	A Yesterday. 10:01AM	10	meeting?	? 10:04AM
- 0		1.1		
11	Q Other than the meeting yesterday, did you	11	A Y	ves.
11	Q Other than the meeting yesterday, did you have any other meeting in preparation for the	12		'es. Vho?
11			Q W	
11 12	have any other meeting in preparation for the	12	Q W A A	Vho?
11 12 13	have any other meeting in preparation for the deposition today?	12 13	Q W A A Q C	Vho? andreas.
11 12 13 14	have any other meeting in preparation for the deposition today? A No.	12 13 14	Q W A A Q C A A	Who? Andreas. Can you spell that for the record?
11 12 13 14 15	have any other meeting in preparation for the deposition today? A No. Q How long was the meeting yesterday? 10:01AM	12 13 14 15	Q W A A Q C A A Q Is	Who? Andreas. Can you spell that for the record? A-N-D-R-E-A-S. 10:05AM
11 12 13 14 15 16	have any other meeting in preparation for the deposition today? A No. Q How long was the meeting yesterday? 10:01AM A It was around eight hours.	12 13 14 15 16	Q W A A Q C A A Q Is A I	Who? Andreas. Can you spell that for the record? A-N-D-R-E-A-S. 10:05AM s that a first or last name?
11 12 13 14 15 16 17	have any other meeting in preparation for the deposition today? A No. Q How long was the meeting yesterday? 10:01AM A It was around eight hours. Q Who was present at that meeting?	12 13 14 15 16 17	Q W A A Q C A A Q Is A I Q D	Vho? Andreas. Can you spell that for the record? A-N-D-R-E-A-S. S that a first or last name? believe it's his first.
11 12 13 14 15 16 17	have any other meeting in preparation for the deposition today? A No. Q How long was the meeting yesterday? 10:01AM A It was around eight hours. Q Who was present at that meeting? A Mishima was one of them.	12 13 14 15 16 17 18	Q W A A Q C A A Q Is A I Q D A N	Who? Andreas. Can you spell that for the record? A-N-D-R-E-A-S. 10:05AM Is that a first or last name? It is his first. It is his his first. It is his his his his his his his his his
11 12 13 14 15 16 17 18	have any other meeting in preparation for the deposition today? A No. Q How long was the meeting yesterday? 10:01AM A It was around eight hours. Q Who was present at that meeting? A Mishima was one of them. Q Anyone else?	12 13 14 15 16 17 18 19	Q W A A Q C A A Q Is A I Q D A N Q A	Who? Andreas. Can you spell that for the record? A-N-D-R-E-A-S. 10:05AM Is that a first or last name? It is believe it's his first. It is you have a last name for Andreas? It is is the same of the s
11 12 13 14 15 16 17 18 19	have any other meeting in preparation for the deposition today? A No. Q How long was the meeting yesterday? 10:01AM A It was around eight hours. Q Who was present at that meeting? A Mishima was one of them. Q Anyone else? A Ruth. 10:01AM Q Who is Ruth?	12 13 14 15 16 17 18 19 20 21	Q W A A Q C A A Q Is A I Q D A N Q A A H	Vho? Andreas. Can you spell that for the record? A-N-D-R-E-A-S. 10:05AM Is that a first or last name? Is believe it's his first. It is o you have a last name for Andreas? It is one who is Andreas? It is a YouTube engineer.
11 12 13 14 15 16 17 18 19 20 21 22	have any other meeting in preparation for the deposition today? A No. Q How long was the meeting yesterday? 10:01AM A It was around eight hours. Q Who was present at that meeting? A Mishima was one of them. Q Anyone else? A Ruth. 10:01AM Q Who is Ruth? A She is a legal person from Google.	12 13 14 15 16 17 18 19 20 21 22	Q W A A Q C A A Q Is A I Q D A N Q A A H Q Is	Who? Andreas. Can you spell that for the record? A-N-D-R-E-A-S. 10:05AM Is that a first or last name? Is believe it's his first. It is oyou have a last name for Andreas? It is one who is Andreas? It is a YouTube engineer. Is there a specific subject matter within
11 12 13 14 15 16 17 18 19 20 21 22 23	have any other meeting in preparation for the deposition today? A No. Q How long was the meeting yesterday? 10:01AM A It was around eight hours. Q Who was present at that meeting? A Mishima was one of them. Q Anyone else? A Ruth. 10:01AM Q Who is Ruth? A She is a legal person from Google. Q So Google in-house; is that correct?	12 13 14 15 16 17 18 19 20 21 22 23	Q W A A Q C A A Q Is A I Q D A N Q A A H Q Is	Who? Andreas. Can you spell that for the record? A-N-D-R-E-A-S. 10:05AM Is that a first or last name? Is believe it's his first. It is you have a last name for Andreas? It is Not from memory. It is a YouTube engineer. Is there a specific subject matter within the that Andreas deals with?
11 12 13 14 15 16 17 18 19 20 21 22	have any other meeting in preparation for the deposition today? A No. Q How long was the meeting yesterday? 10:01AM A It was around eight hours. Q Who was present at that meeting? A Mishima was one of them. Q Anyone else? A Ruth. 10:01AM Q Who is Ruth? A She is a legal person from Google. Q So Google in-house; is that correct?	12 13 14 15 16 17 18 19 20 21 22 23 24	Q W A A Q C A A Q Is A I Q D A N Q A A H Q Is	Who? Andreas. Can you spell that for the record? A-N-D-R-E-A-S. 10:05AM Is that a first or last name? Is believe it's his first. It is you have a last name for Andreas? It is Not from memory. It is Andreas? It is a YouTube engineer. It is there a specific subject matter within that Andreas deals with? It is that Andreas deals worked on

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1	Q And what is playlist service? 10:06AM	1	knowledge regarding a pixel device or the like 10:09AM
2	A It's a YouTube service that deals with	2	receiving and playing a sequence of media items in
3	playlists within YouTube.	3	connection with running one of the YouTube apps?
4	Q When you say "YouTube service," is that a	4	A That can be that can be vague. If you
5	cloud service? 10:06AM	5	can if you can refine the use case even more. 10:10AM
6	A Yes.	6	Q Sure. You agree with me that any of the
7	Q Is the YouTube strike that.	7	YouTube apps can run on a phone; correct?
8	Is the playlist service used with all four	8	A What kind of phone, specifically?
9	of the YouTube apps?	9	Q How about an Android phone? Are there
10	A I don't know. I don't know if all four use 10:06AM	10	Android phones that run the YouTube apps? 10:10AM
11	the C2 playlist service.	11	A Yes.
12	Q Was there anybody else that was present at	12	Q And are there iOS or Apple phones that run
13	the meeting yesterday?	13	the YouTube apps?
14	A Not that I remember right now.	14	A Yes.
15	Q Did you review any documents during the 10:07AM	15	Q So in that context, whether it's Android 10:10AM
16	meeting?	16	or iOS, are you familiar with how the YouTube app
17	MR. KAPLAN: Object to form. I have to	17	would run on the phone?
18	give a quick instruction on privilege here. I think	18	A Sorry, that's still vague in terms of just
19	the question is a little too broad.	19	YouTube app running on a phone.
20	You can answer whether documents that you 10:07AM	20	Q Let me strike it then. 10:11AM
21	reviewed refreshed your recollection or taught you	21	How about with respect to a user playing
22	information subject to the 30(b)(6) topics.	22	back YouTube content on an Android or iOS phone?
23	BY MR. BOYEA:	23	A I have some knowledge.
24	Q Sorry, you cut out there.	24	Q Okay. So let's start with do you agree
25	A Can you rephrase that question? 10:08AM Page 38	25	with me that every device that can run a YouTube app 10:11AM Page 40
1	Q Yes. The question was: Did you review 10:08AM	1	has a central processing unit? 10:11AM
2	any documents during your meeting yesterday?	2	MR. KAPLAN: Object to form, scope.
3	MR. KAPLAN: And the instruction is you	3	THE WITNESS: I don't really know like
4	can answer with respect to documents that refreshed	4	if that's a difficult question for me to just
5	your recollection and with respect to any documents 10:08AM	5	make a statement like that. 10:12AM
6	that may have prepared you on the topics and taught	6	BY MR. BOYEA:
7	you information for those 30(b)(6) topics. Okay?	7	Q Let me ask it this way: Are you aware of
8	THE WITNESS: I did not go over any	8	any device that can run a YouTube app that does not
9	documents that taught me new things.	9	have a central processing unit?
10	BY MR. BOYEA: 10:08AM	10	MR. KAPLAN: Object to form and scope. 10:12AM
11	Q Did you go over any documents that	11	THE WITNESS: I'm unaware of any.
12	refreshed your recollection about the testimony that	12	BY MR. BOYEA:
13	you would be giving today?	13	Q Are you aware of any device that can run a
14	A No.	14	YouTube app that does not have memory?
15	Q So I want to begin with talking about 10:08AM	15	MR. KAPLAN: Object to form and scope. 10:12AM
16	playing back YouTube at a sender device.	16	THE WITNESS: Not that I can think of
17	Do you have knowledge regarding that	17	right now.
18	subject matter?	18	BY MR. BOYEA:
19	A Can you rephrase that question, please?	19	Q Are you aware of any device that can run a
20	Q Sure. One of the topics you're designated 10:09AM	20	YouTube app that does not store a YouTube app 10:12AM
21	for is the design and operation of a computer such	21	software on that memory?
22	as a pixel device receiving and playing a sequence	22	MR. KAPLAN: Object to form and scope.
23	of media items in connection with, and it would be	23	THE WITNESS: Can you rephrase that?
24	the four YouTube apps that we discussed previously.	24	BY MR. BOYEA:
25)	So what I'm asking is if you have 10:09AM Page 39	25	Q Sure. Are you aware of any device that 10:13AM Page 41

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1	Q Have you heard of a WiFi chipset? 10:19AM	1)	
2	MR. KAPLAN: Object to scope. You can	2	watch; correct?
3	answer the question.	3	A I don't know what a user could do.
4	THE WITNESS: WiFi chipset? Possibly.	4	Q So let me get this is your testimony,
5	BY MR. BOYEA: 10:19AM	5	Mr. Mo, so I just want to make sure I'm 10:22AM
6	Q Let me ask you this: For a sender device	6	understanding it.
7		7	You're not sure if a user can select a
8	device connect to a WiFi network? Does it have that	8	single video for playback via the YouTube app; is
9	capability?	9	that your testimony?
10	MR. KAPLAN: Object to form. 10:19AM	10	MR. KAPLAN: Object to form, 10:22AM
11 12	THE WITNESS: Can you repeat that question?	11 12	mischaracterizes testimony. THE WITNESS: No, what I meant was I would
	BY MR. BOYEA:	13	not know what a user may or may not do in a given
14	Q Sure. A sender device that's running a	14	in a given situation.
15	YouTube app, can that device connect to a WiFi 10:19AM	15	BY MR. BOYEA: 10:23AM
	network?	16	Q I'm not asking you that. I'm asking that
17	A If that device has that capability.	17	it's possible for a user to select a single video
18	Q And what would give that device the	18	for playback through a YouTube app on a sender;
19	capability to connect to a WiFi network?		right?
20	A Software support and hardware support. 10:20AM	20	MR. KAPLAN: Object to scope. 10:23AM
21	MR. KAPLAN: Object to scope.	21	THE WITNESS: I know that for the main app
22	BY MR. BOYEA:	22	on mobile, that is a I believe that's the case,
23	Q What hardware support would it need to	23	it's a supported case.
24	-	24	BY MR. BOYEA:
25	MR. KAPLAN: Object to scope. 10:20AM	25	Q Mr. Mo, have you used the YouTube main app 10:23AM
	Page 46		Page 48
1	THE WITNESS: Specifically I wouldn't be 10:20AM	1	before? 10:23AM
1 2	THE WITNESS: Specifically I wouldn't be 10:20AM able to tell you other than WiFi hardware,	1 2	before? 10:23AM MR. KAPLAN: Object to scope.
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2 3	able to tell you other than WiFi hardware,	2	MR. KAPLAN: Object to scope.
2 3	able to tell you other than WiFi hardware, WiFi-enabled hardware.	3	MR. KAPLAN: Object to scope. THE WITNESS: On select devices.
2 3 4 5	able to tell you other than WiFi hardware, WiFi-enabled hardware. BY MR. BOYEA:	3 4	MR. KAPLAN: Object to scope. THE WITNESS: On select devices. BY MR. BOYEA:
2 3 4 5 6	able to tell you other than WiFi hardware, WiFi-enabled hardware. BY MR. BOYEA: Q Are you aware of any sender device that 10:20AM	2 3 4 5	MR. KAPLAN: Object to scope. THE WITNESS: On select devices. BY MR. BOYEA: Q And have you used it on a sender device? 10:23AM
2 3 4 5 6	able to tell you other than WiFi hardware, WiFi-enabled hardware. BY MR. BOYEA: Q Are you aware of any sender device that 10:20AM can run a YouTube app that does not have	2 3 4 5 6 7	MR. KAPLAN: Object to scope. THE WITNESS: On select devices. BY MR. BOYEA: Q And have you used it on a sender device? 10:23AM MR. KAPLAN: Objection.
2 3 4 5 6 7	able to tell you other than WiFi hardware, WiFi-enabled hardware. BY MR. BOYEA: Q Are you aware of any sender device that 10:20AM can run a YouTube app that does not have WiFi-enabled hardware?	2 3 4 5 6 7 8	MR. KAPLAN: Object to scope. THE WITNESS: On select devices. BY MR. BOYEA: Q And have you used it on a sender device? 10:23AM MR. KAPLAN: Objection. THE WITNESS: I have used YouTube main app
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1			
1	playlist of media items for playback? 10:24AM	1)	Q What other specifics would you need? 10:28AM
2	MR. KAPLAN: Object to scope.	2	A Just within the context of anything or
3	THE WITNESS: You asked if it's possible	3	Q So in the context of the YouTube app
4	for which app?	4	playing back on the sender device, have you heard
5	BY MR. BOYEA: 10:25AM	5	the phrase "local queue" before?
6	Q Let's start with the YouTube main app.	6	A I've heard of it.
7	A Mm-hmm. Whether it's possible to play	7	Q And what is the local queue in that
8	playlists?	8	context?
9	Q Correct.	9	MR. KAPLAN: Object to form and scope.
10	MR. KAPLAN: Object to scope. 10:25AM	10	THE WITNESS: It depends on it's a very 10:29AM
11	THE WITNESS: I believe yes, I believe	11	abstract term.
12	that's possible.	12	BY MR. BOYEA:
13	BY MR. BOYEA:	13	Q Well, your testimony is that you have
14	Q And it's possible to play a playlist in	14	heard the phrase "local queue" before in the context
15	YouTube Music; correct? 10:25AM	15	of the YouTube app playing back on the sender 10:29AM
16	MR. KAPLAN: Same objection.	16	device.
17	THE WITNESS: Can you define "playlist"	17	So I want to try to understand what your
18	exactly?	18	understanding is of that term in that context.
19	BY MR. BOYEA:	19	MR. KAPLAN: Object to form,
20	Q Have you does Google use the phrase 10:26AM	20	
21	"playlist" in the context of YouTube Music?	21	THE WITNESS: I've heard of it with
22	A I I use playlist within that context.	22	regards to just playing having a user have
23	Q How do you use the term "playlist" in the	23	being able to play things that they want on the
24	context of YouTube Music?	24	phone.
25	A It depends on the context of the 10:26AM	25	
	Page 50		Page 52
1	conversation. 10:26AM	1	BY MR. BOYEA: 10:30AM
2	Q What does it depend on?	2	Q Is a local queue stored on the phone in
3	MR. KAPLAN: Object to scope.	3	this context?
4	THE WITNESS: Whether I'm talking about it	4	MR. KAPLAN: Object to form.
5	from as like a user or something else. 10:26AM	5	THE WITNESS: I don't know. 10:30AM
6	BY MR. BOYEA:	6	BY MR. BOYEA:
7	Q Let's use that understanding. When you're	7	Q Let me ask you this: In the context of
8	using it in the context of from a user's	8	YouTube Music, are you familiar with the ability for
9	perspective, is it possible to play a playlist in	9	a user to listen to music without an internet
10	YouTube Music? 10:27AM	10	connection? 10:30AM
11	A I don't believe so.	11	A Yes, I have I'm aware of something like
1	A I don't believe so.		
12	Q And what about YouTube Kids, is it	12	that.
12		12 13	that. Q In that context where a user is playing
	Q And what about YouTube Kids, is it possible to select a playlist for playback?		
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13 14	Q And what about YouTube Kids, is it possible to select a playlist for playback? A I don't know actually.	13 14	Q In that context where a user is playing back music without an internet connection, would
13 14 15	Q And what about YouTube Kids, is it possible to select a playlist for playback? A I don't know actually. Q Okay. So in the context of the YouTube 10:27AM sender, have you heard the phrase "local queue"	13 14 15	Q In that context where a user is playing back music without an internet connection, would there be a local queue on the phone? 10:31AM
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13 14 15 16 17	Q And what about YouTube Kids, is it possible to select a playlist for playback? A I don't know actually. Q Okay. So in the context of the YouTube sender, have you heard the phrase "local queue" before?	13 14 15 16 17	Q In that context where a user is playing back music without an internet connection, would there be a local queue on the phone? 10:31AM MR. KAPLAN: Object to form. THE WITNESS: I don't know whether it's
13 14 15 16 17 18	Q And what about YouTube Kids, is it possible to select a playlist for playback? A I don't know actually. Q Okay. So in the context of the YouTube 10:27AM sender, have you heard the phrase "local queue" before? A In the context of I'm sorry, can you	13 14 15 16 17 18	Q In that context where a user is playing back music without an internet connection, would there be a local queue on the phone? 10:31AM MR. KAPLAN: Object to form. THE WITNESS: I don't know whether it's called that or not. It's YouTube Music client
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1) Q So under overview, it states, "The YouTube 10:47AM	1	playlist panel video renderer? 10:51AM
2 Music queue is primarily a client-side construct."	2	A Without again, without knowing exactly
Do you see that?	3	where this came from, it's difficult for me to know
4 A Can you repeat that?	4	what this is actually referring to.
5 Q Under "Overview," do you see the first 10:47AM	5	Q So as Google's designee, can you explain 10:51AM
6 sentence of the document says, "The YouTube Music	6	to me in this context what a renderer is without
7 queue is primarily a client-side construct"?	7	having additional information given to you?
8 A Yes, I do see that.	8	MR. KAPLAN: Object to form. You can
9 Do you have any reason to disagree with	9	answer.
(10 that statement?) 10:47AM	10	THE WITNESS: Again, with sort of the 10:52AM
(11) A I don't know other than I just see that's	11	limited context of this and from my prior experience
12 what it says.	12	with working with renderers, it's a name it's a
Q Do you have an understanding of what it	13	name that we give to, you know, information that's
14 means, "client-side construct"?	14	somewhere. It's just a naming convention.
(15) A I can only interpret based on reading this. 10:48AM	15	BY MR. BOYEA: 10:52AM
(16) Q As Google's designee on the topics here, I	16	Q Okay. So you see there is a statement
17 would like to get Google's position on what a	17	that says, "These renderers are served through
18 client-side construct means in this context.	18	GetMusicWatchNext."
A I didn't write this, so I wouldn't be able	19	What is GetMusicWatchNext?
20 to answer that. 10:48AM	20	A Again, without knowing specifically what 10:53AM
21 Q Okay. Do you know what do you see a	21	this is pointing to, I can't give an exact answer.
22 little bit later, two sentences in it describes,	22	Q Can you give any educated guess as
23 "These renderers are served through	23	Google's designee as to what GetMusicWatchNext means
24 GetMusicWatchNext."	24	in
25 Are you familiar with what a renderer is? 10:48AM Page 58	25	MR. KAPLAN: Object to form. But you can 10:53AM Page 60
	_	<u> </u>
1 A I've heard that term before. 10:48AM	1	answer. 10:53AM
1 A I've heard that term before. 10:48AM 2 Q Can you explain to me what does that mean	1 2	answer. 10:53AM THE WITNESS: I would assume that it's
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1	A I was just referring to the 10:55AM	1	A No. 10:58AM
2	GetMusicWatchNext service.	2	Q So is that the end of your response?
3	Q The GetMusicWatchNext service, is that	3	A I'm scanning the rest of the document to see
4	provided by a cloud server?	4	if it provides more information.
5	A It's a yes, it's a cloud request, so 10:55AM	5	Q Maybe I'll ask a follow-up question. 10:59AM
6	there is a server associated with it.	6	If you look a little bit further down in
7	Q We were talking about YouTube and I think	7	the document, there is a diagram.
8	you went to the GetMusicWatchNext service.	8	Do you see that with a client? And a
9	So is there an equivalent watch next	9	GetMusicWatchNext and a GetMusicQueue box.
10	service in a YouTube context that would be different 10:56AM	10	Do you see that? 10:59AM
11	than the GetMusicWatchNext?	11	A I do.
12	MR. KAPLAN: Object to form.	12	Q And from the client, there are multiple
13	THE WITNESS: Can you repeat that?	13	arrows going to the GetMusicWatchNext and
14	BY MR. BOYEA:	14	GetMusicQueue boxes.
15	Q Yes. So we were talking about YouTube 10:56AM	15	Do you see those? 10:59AM
16	specifically. Is there a watch next service that	16	A Mm-hmm.
17	the YouTube service uses?	17	Q And it says one of the arrows says,
18	A Yes, there is a GetWatchNext request made by	18	"Get queue renderers," the top arrow, "and currently
19	YouTube.	19	playing song metadata on initial container
20	Q In the YouTube Music context, it would be 10:56AM	20	playback." 10:59AM
21	a GetMusicWatchNext request; is that right?	21	And then there is a following one that
22	A From reading this document, that's what it's	22	says, "Get queue renderers on queue continuations."
23	suggesting.	23	Those are both going to the GetMusicWatchNext box.
24	Q Okay. So let's go back to the document.	24	Do you see that?
25	If you can go to the second page. 10:56AM	25	A I do see that. 11:00AM
	Page 62		Page 64
1	A Okay. 10:57AM	1	Q Is it fair to say that the client is 11:00AM
2	Q And the second paragraph starts, "The	2	receiving queue renderers from the GetMusicWatchNext
3	GetMusicWatchNext endpoint provides queue renderers	3	service?
4	when initiating playback on a new container, on	4	A From this diagram, it suggests that based on
5	queue continuation loads, and for the autoplay 10:57AM	5	this diagram, but I also don't see a return arrow. 11:00AM
1			
6	section of the queue."	6	Q Separate and aside from this document, are
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1 section of the queue means? 11:01AM	1 like it could be. 11:05AM
2 A I wouldn't be able to tell you. Again, I	2 Q And to be clear, I'll just let you know
3 didn't write this document and short of that being	3 that any document that has the GOOG-SONOS starting
4 described here, I can't tell you.	4 in the Bates number on the bottom right corner,
5) Q Well, let's look back down at the diagram. 11:02AM	5 that's a document that Google has produced to Sonos 11:05AM
6 There is the third arrow that says, "Get queue	6 in this case.
7 renderers for autoplay."	7 So I'm going to have you go to the fifth
8 Does that give you any other context as to	8 page of the document and you should see a diagram
9 what this might mean?	9 that says, "GetMusicWatchNext Call Flow."
A I mean, based on this, it's getting queue 11:02AM	10 Let me know once you're there. 11:06AM
11 renderers for autoplay. I don't know what that	11 A Is that Page 5?
12 again, short of I did not write this, so short of	12 Q It should be Page 5 of the document and
13 just guessing, I don't know.	13 there should be a blue box at the top of the
Q Well, Mr. Mo, you're Google's designee	14 diagram.
15 here and I can read these words and I can try to 11:02AM	15 A I'm on that page. 11:07AM
16 figure out what it means, but you're the one in the	16 Q It says, "This sequence diagram represents
17 position to tell me what it means to Google. So I'm	17 a typical set of calls to GetMusicWatchNext when
18 trying to get your best estimation of what this is	18 initiating playback on a long playlist."
19 referring to.	Are you familiar with initiating playback
Are you able to give any testimony on 11:03AM	20 on a long playlist in YouTube Music, how that would 11:07AM
21 behalf of Google here as to what the autoplay	21 be accomplished on a sender?
22 reference in this document is referring to?	22 MR. KAPLAN: Object to form. You can
A No, I'm not.	23 answer.
24 MR. KAPLAN: Object to form.	24 THE WITNESS: Can you rephrase your
25 THE WITNESS: Again, not for this 11:03AM Page 66	25 question? 11:07AM
rage oo	Page 68
1 specific this document and for the this queue 11:03AM	1 BY MR. BOYEA: 11:07AM
1 specific this document and for the this queue 11:03AM 2 renderers for autoplay that you've asked for.	1 BY MR. BOYEA: 11:07AM 2 Q Are you familiar with how a YouTube sender
2 renderers for autoplay that you've asked for.	(2) Q Are you familiar with how a YouTube sender
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1 diagram, it says it's loading the first 25 queue 11:09AM 2 elements. 3 Q So is that a yes or no to my question? 4 MR. KAPLAN: Object to form. 5 THE WITNESS: Again, it's your question 11:09AM 6 was around whether the music client can you 7 repeat your question again? 8 BY MR. BOYEA: 9 Q Sure. Is this diagram showing that the 10 YouTube client might load its queue in segments? 11:09AM 11 A That's really vague, I would say no. 12 YouTube client again, are you referring to 11:109AM 2 A What is the context are you still talking 3 about the context of this document in terms of queue? 4 Q Yes, let's use this document and it's a 5 YouTube Music specific document. 6 In the context of the YouTube Music 7 service, are you familiar with a queue an 8 autoplay section of a queue? 9 A No, I'm not familiar with that. If you can 10 provide sorry, go ahead. 11:13AM 11 Q Go ahead. 12 A I was going to say if you can provide more)
3 about the context of this document in terms of queue? 4 MR. KAPLAN: Object to form. 5 THE WITNESS: Again, it's your question 11:09AM 6 was around whether the music client can you 7 repeat your question again? 8 BY MR. BOYEA: 9 Q Sure. Is this diagram showing that the 10 YouTube client might load its queue in segments? 11:09AM 11 A That's really vague, I would say no. 3 about the context of this document in terms of queue? 4 Q Yes, let's use this document and it's a 5 YouTube Music specific document. 6 In the context of the YouTube Music 7 service, are you familiar with a queue an 8 autoplay section of a queue? 9 A No, I'm not familiar with that. If you can 10 provide sorry, go ahead. 11:13AM 11 Q Go ahead.)
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9 Q Sure. Is this diagram showing that the 10 YouTube client might load its queue in segments? 11:09AM 11 A That's really vague, I would say no. 11 Q Go ahead. 11 Q Go ahead.	
10 YouTube client might load its queue in segments? 11:09AM 11 A That's really vague, I would say no. 11:13AM 11 Q Go ahead.	
11 A That's really vague, I would say no. 11 Q Go ahead.	
12 YouTube client again, are you referring to 12 A I was going to say if you can provide more	
13 a specific one? 13 concrete examples.	
14 Q Well, I'm referring to the document and 14 Q Hopefully this will help. I'm going to	
15 the diagram. It says "Client"; correct? 11:10AM 15 introduce another exhibit. Maybe this will give you 11:13	AM
16 A That's what the diagram says. 16 a little bit more concrete substance here.	
17 Q There's no specificity as to what 17 MR. BOYEA: Jae is going to identify an	
18 particular client is being called out in this 18 exhibit that's going to be identified as Mo	
19 diagram; right? 19 Exhibit 5.	
20 A Again, that's what the diagram shows 11:10AM 20 (Exhibit 5 was marked for identification.) 11:13AM	
21 client. 21 BY MR. BOYEA:	
Q I'm asking in the context of this diagram, 22 Q Before that comes through, Mr. Mo, do you	
23 is it fair to say that this shows that the client is	
24 going to load the queue elements into its queue in 24 media, that it can play back through a sequence of	
25 different segments at a time? 11:10AM 25 media items at a given time? 11:14AM	
Page 70	age 72
MR. KAPLAN: Object to form. But you can 11:11AM 1 MR. KAPLAN: Object to form. 11:14AM	
2 answer. 2 THE WITNESS: Can you repeat that?	
3 THE WITNESS: I don't know. It goes back 3 BY MR. BOYEA:	
4 to this is what the diagram shows. 4 Q Sure. When a YouTube sender is playing	
5 BY MR. BOYEA: 11:11AM 5 back media, you understand that it can play back 11:14.	λM
6 Q And again, you're Google's designee here. 6 through a sequence of media items; right?	
7 So I just want to make sure this is Google's MR. KAPLAN: Object to form.	
8 testimony. 8 THE WITNESS: Can you give a more concrete	
9 So you can't give me an answer one way or 9 example?	
10 the other? 11:11AM 10 BY MR. BOYEA: 11:14AM	
MR. KAPLAN: Objection to form, misstates 11 Q Why don't you go ahead and open Mo	
12 testimony. 12 Exhibit 5 now.	
13 THE WITNESS: I did not write this 13 Let me know once you have that up.	
14 document. 14 A Yes.	
15 BY MR. BOYEA: 11:11AM 15 Q These are screenshots that were captured 11:15A.	и
16 Q Do you have any idea what the "load 16 this weekend on a pixel device running the different	
17 autoplay section of the queue" arrow means at the 17 YouTube apps.	
18 very bottom of the diagram? 18 I would like to ask you some questions	
19 A Are you asking me if I 19 here. Hopefully this will give you a little bit	
20 Q Could you explain to me what that is a 11:12AM 20 more context. 11:15AM	
21 reference to? 21 So the first screenshot labeled	
22 A I'll have to read this document to see what 22 "Screenshot Number 1", does that look familiar to	
23 it's why it's there. 23 you, the GUI at least look familiar to you?	
24 Q Let me ask you more generally. 24 MR. KAPLAN: Object to form and	
25 Are you familiar with a queue having an 11:12AM 25 authenticity. 11:15AM	
Page 71	age 73

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1 THE WITNESS: I've seen something similar 11:15AM	1 Q Do you have an understanding of what 11:18AM
2 to it.	2 "Autoplay is on" is referring to in the YouTube Kids
3 BY MR. BOYEA:	3 context?
4 Q You agree with me that this is a	4 A I cannot say definitively.
5 YouTube a screenshot of a YouTube main app; 11:15AM	Does YouTube Kids refer to autoplay in any 11:18AM
6 right?	6 other context other than it being a recommendation
7 A Again, without knowing the source of the	7 of a video after the current video finishes?
8 screenshot, it's hard to say whether it's from a	8 A Again, it depends on context. It could be
9 natural YouTube app or not.	9 different things just from experience.
10 Q I'll represent that this was captured on 11:15AM	Q In this context shown in Screenshot 11:18AM
11 the pixel device running the YouTube main app. And	11 Number 2, you can't tell me what "Autoplay is on" is
12 so I want to ask you some questions here.	12 referring to?
So you see in the upper not all the way	MR. KAPLAN: Object to form. But you can
14 to the upper right corner of Screenshot 1, but that	14 answer.
15 there is an icon that has "cc" in it? 11:16AM	THE WITNESS: I can only guess what it's 11:19AM
16 A Yes, I see that.	16 for.
17 Q Then to the left of that there is what I	17 BY MR. BOYEA:
18 believe is referred to as the cast icon; correct?	Q Well, as Google's 30(b)(6) designee, can
19 A It looks like one, yes.	19 you give me an educated guess as to what you think
20 Q Then to the left of that is another icon 11:16AM	20 this is for? 11:19AM
21 with looks to be like a play a circle around	MR. KAPLAN: Object to form. But you can
22 like a play icon.	22 answer.
Do you see that?	THE WITNESS: Again, this is outside of
24 MR. KAPLAN: Object to form.	24 the context of casting, so my guess is that it could
25 THE WITNESS: I see yes, I see another 11:16AM	25 be similar to what is shown above in the main app, (11:19AM)
Page 74	Page 76
1 icon, it's to the other cast like icon. 11:16AM	1 that it would enable recommendations for when the 11:19AM
2 BY MR. BOYEA:	2 current video ends.
3 Q Are you familiar with what the icon next	3 BY MR. BOYEA:
4 to the cast icon is used for?	4 Q Now, you've referred to recommendations.
5 A As a user, I believe from experience, yes. 11:17AM	5 Where do these recommendations come from? 11:20AM
6 Q What is it used for then?	6 A I'm not an expert in recommendations on
7 A To enable recommendations when the current	7 YouTube. They come from essentially a service.
8 video finishes.	8 That's one way to get recommendations.
9 Q Is that the same thing as the feature that	9 Q When you say "a service," is that a cloud
10 Google refers to as autoplay? 11:17AM	10 service? 11:20AM
11 MR. KAPLAN: Object to form. But you can	11 A That could be one.
12 answer.	12 Q In the context of YouTube, do you know
13 THE WITNESS: That term is actually	13 what cloud service provides recommendations?
14 overloaded. So maybe if you can provide a more	14 A I don't know all of them.
15 concrete definition of "autoplay." 11:17AM	15 Q Do you know any of them? 11:20AM
16 BY MR. BOYEA:	16 A Again, I believe GetWatchNext contains
Q Well, I'm asking how Google uses that	17 can contain recommendations.
18 terminology. So you can see below in Screenshot	Q Do you know if GetWatchNext can be used
19 Number 2, I'll represent that this is a screenshot	19 with YouTube Kids as well to provide
20 that was taken using the YouTube Kids app on a pixel 11:17AM	20 recommendations? 11:21AM
21 device.	21 A I don't know. It really depends on various
You see right in the middle it says,	22 factors. I just know that it can. It doesn't mean
23 "Autoplay is on."	_
	23 that it does.
Do you see that?	23 that it does.24 Q If you scroll to the second page of this
Do you see that? 25 A I do see that. 11:18AM	
	24 Q If you scroll to the second page of this 25 document, there are two screenshots labeled 11:21AM

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1	Screenshot 3 and Screenshot 4. I'll represent that 11:21AM	1	For the record, this is a document titled 11:25AM
2	these were screenshots taken on a pixel device	2	"Cast" and the first Bates number is
3	running the YouTube Music app.	3	GOOG-SONOSWDTX-000 39484.
4	Do you see in Screenshot Number 4, Mr. Mo,	4	Q Let me know when you have that open,
5	there is an autoplay banner about a little more than 11:21AM	5	Mr. Mo. 11:25AM
6	halfway above between the halfway point of this	6	A Yes, I have it open.
7	screenshot.	7	Q Have you seen this document before?
8	Do you see that?	8	A It looks familiar. I can't say for sure
9	A Yes, I see that.	9	whether I've seen this specific one or not.
10	Q Are you familiar with how the section of 11:22AM	10	Q But you've seen documents like this? 11:26AM
11	this screen is populated below the autoplay section?	11	A I've seen documents that has similar
12	A No, I'm not.	12	content.
13	Q Do you have any knowledge of whether the	13	Q And where would you have seen documents
14	autoplay section gets populated by a watch next	14	
15	service? 11:22AM	15	A I'm looking at the left side, it's a 11:26AM
16	A I don't know in this case.	16	essentially it's a team site.
17	Q Who at Google would you go ask if you	17	Q Do you have access to this team site?
18	wanted to find the answer to that question? Do you	18	A Again, I don't know. It looks like it. It
19	have anybody in mind?	19	looks like this document could come from it. I
20	A No, I would someone on the YouTube Music 11:23AM	20	have 11:27AM
21	team.	21	Q Yes, go ahead.
22	Q And who would you at the YouTube Music	22	A And I have had access to the team site
23	team start with if you were trying to find the	23	before.
24	answer to that question?	24	Q This is a team site that's internal to
25	A I don't have a person off the top of my mind 11:23AM	25	
23	Page 78	23	Page 80
1	setting here. 11:23AM	1	A Yes, it would be. 11:27AM
2	Q Is there a team lead over in the YouTube	2	Q All right. So do you have a general
3	Music team I guess. Let me strike that.	3	understanding of what the context of this document
4	Is there a leader of the YouTube Music		E .
		4	is?
5			is? I'll ask a better question. Let me strike 11:27AM
	team that you would go to? 11:23AM	5	I'll ask a better question. Let me strike 11:27AM
6	team that you would go to? 11:23AM A I don't know who that person would be.	5 6	I'll ask a better question. Let me strike 11:27AM that.
6 7	team that you would go to? A I don't know who that person would be. Q All right. So if you scroll to the third	5 6 7	I'll ask a better question. Let me strike 11:27AM that. Do you have a general understanding of the
6 7 8	team that you would go to? A I don't know who that person would be. Q All right. So if you scroll to the third page of this document, there is a screenshot labeled	5 6 7 8	I'll ask a better question. Let me strike 11:27AM that. Do you have a general understanding of the subject matter of this document titled "Cast"?
6 7 8 9	team that you would go to? A I don't know who that person would be. Q All right. So if you scroll to the third page of this document, there is a screenshot labeled Screenshot Number 5. And I'll represent to you that	5 6 7 8 9	I'll ask a better question. Let me strike 11:27AM that. Do you have a general understanding of the subject matter of this document titled "Cast"? A Can you give me a few moments to read
6 7 8 9 10	team that you would go to? A I don't know who that person would be. Q All right. So if you scroll to the third page of this document, there is a screenshot labeled Screenshot Number 5. And I'll represent to you that this is a screenshot that was captured on a pixel 11:24AM	5 6 7 8 9 10	I'll ask a better question. Let me strike 11:27AM that. Do you have a general understanding of the subject matter of this document titled "Cast"? A Can you give me a few moments to read through this? 11:27AM
6 7 8 9 10 11	team that you would go to? A I don't know who that person would be. Q All right. So if you scroll to the third page of this document, there is a screenshot labeled Screenshot Number 5. And I'll represent to you that this is a screenshot that was captured on a pixel 11:24AM device running the YouTube TV app.	5 6 7 8 9 10 11	I'll ask a better question. Let me strike 11:27AM that. Do you have a general understanding of the subject matter of this document titled "Cast"? A Can you give me a few moments to read through this? 11:27AM Q Yes, sure.
6 7 8 9 10 11 12	team that you would go to? A I don't know who that person would be. Q All right. So if you scroll to the third page of this document, there is a screenshot labeled Screenshot Number 5. And I'll represent to you that this is a screenshot that was captured on a pixel 11:24AM device running the YouTube TV app. Do you see below the halfway point of the	5 6 7 8 9 10 11 12	I'll ask a better question. Let me strike 11:27AM that. Do you have a general understanding of the subject matter of this document titled "Cast"? A Can you give me a few moments to read through this? 11:27AM Q Yes, sure. Now that you have had a chance to read
6 7 8 9 10 11 12 13	team that you would go to? A I don't know who that person would be. Q All right. So if you scroll to the third page of this document, there is a screenshot labeled Screenshot Number 5. And I'll represent to you that this is a screenshot that was captured on a pixel 11:24AM device running the YouTube TV app. Do you see below the halfway point of the screenshot, there is an "Up Next" section there?	5 6 7 8 9 10 11 12 13	I'll ask a better question. Let me strike 11:27AM that. Do you have a general understanding of the subject matter of this document titled "Cast"? A Can you give me a few moments to read through this? 11:27AM Q Yes, sure. Now that you have had a chance to read through it, do you have an understanding of the
6 7 8 9 10 11 12 13 14	team that you would go to? A I don't know who that person would be. Q All right. So if you scroll to the third page of this document, there is a screenshot labeled Screenshot Number 5. And I'll represent to you that this is a screenshot that was captured on a pixel 11:24AM device running the YouTube TV app. Do you see below the halfway point of the screenshot, there is an "Up Next" section there? A Yes, I see that.	5 6 7 8 9 10 11 12 13 14	I'll ask a better question. Let me strike 11:27AM that. Do you have a general understanding of the subject matter of this document titled "Cast"? A Can you give me a few moments to read through this? 11:27AM Q Yes, sure. Now that you have had a chance to read through it, do you have an understanding of the general subject matter of this document?
6 7 8 9 10 11 12 13 14	team that you would go to? A I don't know who that person would be. Q All right. So if you scroll to the third page of this document, there is a screenshot labeled Screenshot Number 5. And I'll represent to you that this is a screenshot that was captured on a pixel 11:24AM device running the YouTube TV app. Do you see below the halfway point of the screenshot, there is an "Up Next" section there? A Yes, I see that. Q Do you have an understanding of where the	5 6 7 8 9 10 11 12 13 14 15	I'll ask a better question. Let me strike 11:27AM that. Do you have a general understanding of the subject matter of this document titled "Cast"? A Can you give me a few moments to read through this? 11:27AM Q Yes, sure. Now that you have had a chance to read through it, do you have an understanding of the general subject matter of this document? A Yes, I do in general, a general level. 11:29AM
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Case 3:20-cv-06754-WHA Document 865-6 Filed 09/05/23 Page 15 of 31 HIGHLY CONFIDENTIAL - SOURCE CODE

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Page 107 Page 109		A Yes, for for the cast receiver. Sorry,
		25 for the Google cast hardware. 1:05PM

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	receiver client. 1:19PM	1	service again, it's kind of used it to to be 1:23PM
2	Q And what would be the contents of the set	2	this data source for for this shared queue.
3	playlist message being sent to the receiver client?	3	The session server also maintains its own
4	A The content may the message may	4	copy of the content of the shared queue in memory.
5	contain I know it contains fields such as video, 1:19PM	1 5	Q You're referring to a playlist service and 1:24PM
6	video ID, playlist ID. Those are the ones I know off	6	so I want to ask you some questions about that.
7	the top of my head.	7	Can you describe for me, what is the
8	Q The video ID field, will that contain the	8	what is that service at a high level?
9	same video ID that was in the set playlist message	9	A At a high level, that's you can think of
10	sent from the sender to the MDx server? 1:20PM	10	service as a piece of infrastructure that is sort 1:24PM
11	A It could be. It could be the same.	11	of the dedicated purpose is around providing
12	Q In what circumstance would it not be the	12	playlist functionality. So this playlist service
13	same?	13	provides API, for example, for an MDx server to create
14	A I can't think of one right now.	14	a natural playlist and to update its playlist content.
15	Q In response to receiving the set playlist 1:20PM	15	Q Does the playlist service let me strike 1:25PM
16	message, does the cast let me strike that.	16	that.
17	In response to receiving the set playlist	17	Is the watch next service related to the
18	message, does the MDx session server have a queue in	18	playlist service in any way?
19	the cloud that it references?	19	A By "related," the watch next service could
20	MR. KAPLAN: Object to form. 1:21PM	20	use playlist service, it could make calls into the 1:25PM
21	THE WITNESS: Can you clarify further what	21	playlist service.
22	do you mean by "queue"? Is there a specific	22	Q Cost the playlist service make calls into
23	meaning?	23	the watch next service?
24	BY MR. BOYEA:	24	A I don't know.
25		25	
23	Q Sure. Have you heard in the context of 1:21PM Page 118	23	Q Does the MDx session server make calls 1:26PM Page 120
1	MDx of an MDx queue? 1:21PM	1	into the watch next service? 1:26PM
2	MDx of an MDx queue? 1:21PM A Not in those terms.	1 2	into the watch next service? 1:26PM A No, it does not.
2	A Not in those terms.	2	A No, it does not.
3	A Not in those terms.Q What about a shared queue?A Yes, I'm familiar with shared queue.	2	A No, it does not. Q Does the MDx let me strike that.
2 3 4	 A Not in those terms. Q What about a shared queue? A Yes, I'm familiar with shared queue. Q What is a shared queue in the MDx context? 1:21PM 	2 3 4	A No, it does not. Q Does the MDx let me strike that. Does the shared queue we talked earlier about recommended media items in the context of a 1:26PM
2 3 4 5	 A Not in those terms. Q What about a shared queue? A Yes, I'm familiar with shared queue. Q What is a shared queue in the MDx context? 1:21PM A Shared queue is something that I refer to 	2 3 4 5	A No, it does not. Q Does the MDx let me strike that. Does the shared queue we talked earlier about recommended media items in the context of a 1:26PM YouTube app. Do you remember that?
2 3 4 5 6	A Not in those terms. Q What about a shared queue? A Yes, I'm familiar with shared queue. Q What is a shared queue in the MDx context? 1:21PM A A shared queue is something that I refer to and generally the MDx team refer to as a it's a	2 3 4 5 6	A No, it does not. Q Does the MDx let me strike that. Does the shared queue we talked earlier about recommended media items in the context of a 1:26PM YouTube app. Do you remember that? A Yes, I vaguely remember that.
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	A Not in those terms. Q What about a shared queue? A Yes, I'm familiar with shared queue. Q What is a shared queue in the MDx context? 1:21PM A A shared queue is something that I refer to and generally the MDx team refer to as a it's a YouTube playlist that has a special playlist name that is used to store videos or songs, to hold songs or videos that is to be played on the receiver device. 1:22PM And they support multiuser scenarios. Q Where does the shared queue exist? A "Shared queue" can be a little bit of a loose term. In some cases we kind of just refer to that as the playlist. So there's the playlist service 1:23PM that actually holds the playlist associated with the shared queue. And then there's also the session server also has this state that contains the videos and songs or whatever that are in the shared queue. Q So how does the shared queue get populated with songs or videos? A So in one scenario, the session server will	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	A No, it does not. Q Does the MDx let me strike that. Does the shared queue we talked earlier about recommended media items in the context of a 1:26PM YouTube app. Do you remember that? A Yes, I vaguely remember that. Q Does the shared queue contain any recommended media items in the context of a YouTube cast session? 1:26PM MR. KAPLAN: Object to form. THE WITNESS: It's a little bit hard to answer that. What do you mean specifically by "recommended content"? BY MR. BOYEA: 1:27PM Q Well, earlier when we were talking about recommending content, it was shown in the context of that autoplay feature. Do you remember that? A Yes, there were a couple of screenshots. 1:27PM Q Yeah. So would the shared queue include any autoplay videos or songs? A I don't believe it does.

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	and wants to listen to an album are you following 1:27PM	1	BY MR. BOYEA: 1:31PM
-	me so far?	2	Q What information would you need to know?
3	A This is on the sender side this is happening	3	A Just where it's getting the data from for
4		4	populating this TV queue section.
5	Q Yes, on the sender side. So if they want 1:28PM	5	Q Yes, those are the questions I'm asking 1:32PM
6	•	6	you, right?
7	album appearing in the up next panel?	7	You are Google's 30(b)(1) witness on the
8	A No. Can you clarify some more?	8	accused autoplay functionality for the YouTube apps.
9	Q Let me see if we have an example. Let me	9	So what I'm asking you is: As Google's
10		10	representative, how is the TV queue represented here 1:32PM
11	Hopefully this can give you a little bit more	11	on the screen, how is that presented in the MDx
12		12	session server, if at all?
13	MR. BOYEA: Jae just added to the shared	13	MR. KAPLAN: Object to form and
14		14	authenticity.
15	(Exhibit 7 was marked for identification.) 1:29PM	15	THE WITNESS: Again, not knowing exactly 1:32PM
16	MR. BOYEA: Let me know once you have	16	where what this is tied to, which client, which
17		17	date, I can't say for certain.
18	For the record, this is a screenshot that	18	BY MR. BOYEA:
19	was recently captured on a pixel device of the	19	Q All right. The date this was taken was
20	YouTube app. 1:29PM	20	this weekend using a current YouTube app running on 1:33PM
21	THE WITNESS: I have it open.	21	a pixel device or excuse me, on an iPhone and
22	BY MR. BOYEA:	22 23	yeah, it was running on an iPhone.
23	Q Okay. And so, Mr. Mo, as you can see		So what other information do you need from me?
24		25	
25	Page 122	23	A There's also a lot of things that I alluded 1:33PM Page 124
1	on Speaker A." 1:30PM	1	to before YouTube runs experiments, which means that 1:33PM
2	1		not all the users are guaranteed to get the same
3	•	3	experience.
4	•	4	Q How does that change your answer?
5	THE WITNESS: I do see this picture that's 1:30PM	5	A I can't say anything with particularity. 1:33PM
6	in this document.	6	Q You're Google's 30(b) yeah, go ahead.
7	BY MR. BOYEA:	7	A I just wouldn't be able to say for certain
8	Q Are you familiar with the panel that is	8	for this specific case.
9	shown where it says, "TV queue 2/2" and then below	9	Q Let's take it away from this specific
10	that, "Autoplay is on"? 1:30PM	10	case. 1:34PM
11	Have you seen that before?	11	You understand that YouTube, you can cast
12	A I can't say for certain. The UI is maybe	12	a user-selected item; correct, a user-selected
13	I'm more familiar with another UI.	13	video; right?
14	Q But are you familiar with this type of UI	14	A Yes.
15	where there are TV queue items followed by an 1:30PM	15	Q And in the casting context, YouTube will 1:34PM
16	autoplay section?	16	
17	A Yes, I have seen UIs with similar layouts.	17	A It provides the capability for which the
18	Q All right. So what I want to find out is:	18	user can enable.
19	In this example that we have up on the screen here,	19	Q And in fact, YouTube has autoplay enabled
20	would the shared queue in the MDx service, would 1:31PM	20	by default; right? 1:34PM
21	that contain the TV queue items? Let's start there.	21	MR. KAPLAN: Object to form and scope.
22	MR. KAPLAN: Object to form.	22	THE WITNESS: I don't know.
23	THE WITNESS: It's hard to say without	23	BY MR. BOYEA:
24	knowing exactly what is actually happening behind	24	Q You don't know one way or the other;
1 .			
25	the scenes with this UI. 1:31PM Page 123	25	right? 1:34PM Page 125

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1 A I don't think there's any definitive answer 1:34PM	1 watch next service. 1:38PM
2 that can be just answered for all contexts.	2 Q I think we'll circle back to asking some
3 Q Let's assume autoplay is enabled. When a	3 specific questions about the watch next service.
4 user casts a single selected video, there will be an	4 But returning to Exhibit 7, I just want to
5 autoplay recommended video after that; correct? 1:35PM	5 make sure I understand. 1:39PM
6 A Sorry, after what?	6 So as Google's 30(b)(6) as Google's
7 Q The autoplay recommended video would be	7 30(b)(6) designee, are you testifying here today
8 the video that would be playing next after the	8 that you're unfamiliar with the user interface
9 user-selected video; correct?	9 that's shown in Exhibit 7?
10 A Yes, for the context where a single video is 1:35PM	10 MR. KAPLAN: Object to form, scope. 1:39PM
11 selected.	11 THE WITNESS: I'm saying that I can't say
12 Q Correct. So what I'm wondering is where	12 definitively what the data source is for what is
13 is this information stored in the cloud, for	13 shown here.
14 instance? This current video and the autoplay	14 BY MR. BOYEA:
15 video, where does that information come from? 1:35PM	15 Q Could you make an educated guess as to the 1:39PM
16 A Again, I can't speak for this specific	16 data source of what is shown as Google's 30(b)(6)
17 screenshot, but for the other UI components that I am	17 designee?
18 aware of, that shows the remote queue in autoplay. 19 The remote queue the remote queue I believe on the	J .
	19 answer.
20 sender side I'm actually not 100 percent sure. 1:36PM	20 THE WITNESS: Yes. Same to what I 1:40PM
For the autoplay, that comes from the	21 mentioned earlier, the autoplay for the cast use
22 receiver.	22 case would be coming from the receiver, which it
Q And what do you mean by it "comes from the	23 gets from the watch next response, and the queue
24 receiver"?	24 would be from either playlist service actually
A The receiver gets the autoplay again, 1:36PM Page 126	25 likely would be from playlist service. 1:40PM Page 1
1 age 120	1 age 1
1 there's various I'm talking about if there is a 1:36PM	1 BY MR. BOYEA: 1:40PM
1 there's various I'm talking about if there is a 2 specific autoplay field in the MDx autoplay and the	1 BY MR. BOYEA: 1:40PM 2 Q What does the phrase "TV queue" mean in
2 specific autoplay field in the MDx autoplay and the	2 Q What does the phrase "TV queue" mean in
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1	A I can't speak to the specifics of what is 2:14PM	1	1 ,
	eturned in that response and what are the specific	2	needs"?
	ieces of information that a player a player needs.	3	A No, other than there's just high levels of
4	Q Well, I guess let's take a step back from	4	understanding that I may have versus someone who
	ne response. 2:14PM	5	actually knows a lot more about the playback. 2:18PM
6	So the cast receiver receives the set	6	Q As Google's 30(b)(6) designee, I would
7 pl	laylist message from the MDx server with a video	7	like your high level understanding of the steps.
8 II	D; right? That video ID corresponds to media that	8	A Sure. At a high level, YouTube playback
9 th	ne cast receiver is supposed to play back; right?	9	relies on what we call band-aid servers. They are
10	A Yeah, the video ID is of the video or song 2:15PM	10	they essentially will they are kind of like a cache 2:19PM
11 th	nat the user wants to play.	11	system for storing video video bits for playback.
12	Q Presumably the cast receiver then gets the	12	As far as I understand, player responds
13 vi	ideo or song for actual playback; right?	13	and obtains information that the player needs to
14	A Yes, playback happens again with the video	14	know, you know, where these servers or caches are to
15 II	D or playlist ID, the video ID past to get player 2:15PM	15	load from. 2:19PM
16 w	hich is, again, handled by the player player	16	Beyond that, the player has additional
17 m	nodule.	17	logic for it, for adapting to the environment and so
18	Q Whatever module it's handled by, that's	18	forth during playback.
19 no	ot my question. I'm asking: The cast receiver	19	Q Now, is the band-aid server that you're
20 w	vill ultimately retrieve the song or video and play 2:16PM	20	referring to, is that something different than the 2:19PM
21 it	back; correct?	21	MDx server never that we were talking about before?
22	A Yes, in some form playback happens.	22	A Yes, it is.
23	Q How does that happen	23	Q Is the band-aid service something
24	MR. KAPLAN: Objection.	24	different than the player service we were referring
25		25	to before? 2:20PM
	Page 142		Page 144
1 B	Y MR. BOYEA: 2:16PM	1	A Yes. 2:20PM
2	Q when receiving the video ID to actually	2	Q Is it different than wherever the watch
3 pl	laying back the song or video? Fill in that gap,	3	next service is provided by let me strike that.
4 pl	lease.	4	Is the band-aid server a different server
5	MR. KAPLAN: Object to form. Go ahead. 2:16PM	5	than whatever is providing the watch next service? 2:20PM
6	THE WITNESS: From my perspective, it	6	A Yes.
7 ge	ets I guess the receiver or client gets a video	7	Q Do all of the YouTube apps ultimately
8 II	D and what happens underneath is what happens	8	utilize a band-aid server in the casting context?
9 af	fter that is a get player request is made and then	9	A I don't know if I can I would not be able
10 th	ne response contains it may contain, you know, 2:17PM	10	to definitely say all for all cases. 2:21PM
	IRLs related to where the content may be. There is	11	Q Let's take them one by one then, I guess.
	lot of intricacies to how that's done.	12	
13 B	Y MR. BOYEA:	13	YouTube main, is the content for YouTube obtained
14	Q That doesn't answer the whole question	14	from a band-aid server?
	ecause I asked: How does it actually play back the 2:17PM	15	
	ideo or song?	16	
17	And so what are the next steps that would	17	I am unaware of where that might not be the case. But
	acilitate that process?	18	my understanding is that it will try to retrieve from
19	MR. KAPLAN: Object to form.	19	band-aid or edge server.
20	THE WITNESS: Again, the player gets the 2:17PM	20	Q And I'm not curious for the edge cases 2:21PM
	nformation that it needs to get the data that it	21	here.
	eeds to play the video to play the video.	22	In the other YouTube app context, will a
	Y MR. BOYEA:	23	band-aid server typically be used to obtain the
24	Q You're saying the player gets the	24	underlying content?
	aformation that it needs. Can you give me any more 2:18PM	25	
25 11	Page 143		Page 145

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1			
1	that the cast receiver processes? 3:02PM	1	singleton stored in stored in memory with the 3:06PM
2	A Yes, again, there could be cases where the	2	application.
3	watch next response may contain, you know, multiple	3	Q Let's use that broader understanding of
4	fields that contain video ID.	4	"store in memory," whether it's transitory or
5	Q And will the cast receiver store in its 3:02PM	5	constant, and let's use that understanding of 3:06PM
6	memory an indication of two different video IDs?	6	storing in memory; okay?
7	A The source code could have multiple copies	7	A Okay.
8	of various variables at any time. So it's possible	8	Q In the example that we're referring to,
9	that it's storing multiples of anything.	9	does the cast receiver store in memory the video ID
10	Q Yes, that was not my question. 3:03PM	10	of the current video that it receives in the watch 3:06PM
11	So my question is: It seems like there	11	next response?
12	are circumstances where a watch next response could	12	A Yes, I'm sure there is some variable
13	contain two different video IDs; is that correct?	13	somewhere that it represents the watch next response.
14	A There could be cases where there could be	14	Q Will the cast receiver store in memory the
15	multiple fields of video ID fields in them. 3:03PM	15	video ID of the autoplay video in its memory? 3:07PM
16	Q That's not the question I'm asking you,	16	MR. KAPLAN: Object to form.
17	Mr. Mo. So please answer the question that I'm	17	
18	asking.	18	can't it's difficult for me to answer off the top
19	Can a watch next response contain two	19	of my head. I would imagine that there is a
20	different video IDs, not a duplicate of the same 3:03PM	1 20	variable somewhere that stores the autoplay 3:07PM
21	video ID?	21	information.
22	A Yes, it can.	22	BY MR. BOYEA:
23	Q What are the circumstances where that	23	Q And what would the autoplay information be
24	might happen?	24	used for?
25	A One would be if, for example, in autoplay 3:04PM	125	A One scenario is for it to send a message to 3:07PM
	Page 166		Page 168
1	there is like a field in watch next response that 3:04PM	1	the session server and then that gets sent back to the 3:08PM
	contains the autoplay, which we referred to earlier,	2	sender so that it can render, like, this is what the
	that will likely have the video ID of the autoplay	3	video the autoplay video would be or is so that it can
	video in addition to the current video, the video ID	4	get rendered.
	of the current video. 3:04PM		6
6		5	And then that's one of the scenarios. 3:08PM
	O And would the cast receiver store in its	5	And then that's one of the scenarios. 3:08PM O Will the cast receiver ultimately playback
		6	Q Will the cast receiver ultimately playback
	memory the video ID of the current video?		Q Will the cast receiver ultimately playback the autoplay video?
7 8	memory the video ID of the current video? A Yes, it's possible that there are variables	6 7 8	Q Will the cast receiver ultimately playback the autoplay video? A Yes, it can under certain yes, under
7 8 9	memory the video ID of the current video? A Yes, it's possible that there are variables stored in memory.	6 7 8 9	Q Will the cast receiver ultimately playback the autoplay video? A Yes, it can under certain yes, under certain situations where autoplay is triggered.
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1 player – again, get player is made and then as a form 3:10PM 2 of optimization, the client will defer making the 3 watch next until it's been notified that playback has 4 actually started. 5 Q And will that notification be some sort of 3:10PM 6 internal notification at the cast receiver? 7 MR. KAPLAN: Object to form. 8 THE WITNESS: There's code within the 9 receiver, the YouTube receiver app where, you know. 10 it can get that information from an APL 3:10PM 11 BY MR. BOYEA: 12 Q Okay. And then so the cast receiver? 13 ultimately make a watch next request and in this 14 example, what would be in the watch next request? 15 A The playlist ID would be one, the video ID 3:11PM 16 would be another and then there would be other ones. 17 I card list off of my head. 18 Q So in this circumstance there would be 19 both a playlist ID and a video ID and the video ID 20 corresponds to the video that the cast receiver receives? 21 A Yes. 22 A Yes. 23 Q Okay. What would be the contents of the 24 watch next response that the cast receiver receives? 25 A It may contain the current watch video 3:11PM 26 contain — again, the specifics will kind of depend on 3 are certain autoplay settings enabled or not, which 4 client are we talking with again. 25 But this is kind of just being — without 3:12PM 26 being too narrow and — I'll give you an example. 27 Metadata about the current video ille, subtitle, a artist, so forth. If it's a playlist, it may 9 contain metadata information about that as well. 28 A gain, depending on the actual client. 19 my use. 29 Contain metadata information about that as well. 20 Pass Sorry, I was asking on the actual death that the client 19 my use. 31 Q What about in terms of video IDs? In this 14 particular example, will there be a single or 5 multiple video ID statt may differ. Again, the autoplay set could differ from the current. 31 THE WITNESS: Sorry, did somebody — 11 playlist — 12 may use. 32 Q What about in terms of video IDs? In this 14 particular example, will there be a single or 5 multiple vide	
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20 there's autoplay set renderer where it will contain 3:13PM 20 playlist, so say the playlist is ten songs long, 3:	
21 like next previous so forth depending on the	17PM
21 tts somewhere within the playlist.	
22 playback. 22 When the cast receiver makes a watch next	
Q What is in the autoplay set renderer? Can 23 request, say it's playing currently song 5, when it	
24 you explain to me exactly what that is? 24 makes the watch next request, will the watch next	
A Yes, that's just the naming that was given 3:14PM 25 response include the next video ID for song	3:17PM
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1 number 6?	3:18PM	1	playing the current song or video? 3:22PM
	e again, for clients that	2	A As far as I know, it makes the call when it
	e watch next response is	3	finishes the current playback.
	of capabilities defined by the	4	THE REPORTER: Is this a good time for a
4 dependent on kind of 5 client.	3:18PM		_
	lds will only get filled if	6	MR. KAPLAN: Before we take a break, could
7 it's actually defined		7	we mark the transcript as highly confidential source
1	ific next endpoint are you	8	code, please?
9 referring to again?	2.1000	9	THE REPORTER: Sure.
	t's what I'm trying to get to 3:18PM	10	MR. BOYEA: Let's go ahead and go off the 3:23PM
•	is not necessarily going to be	11	
12 an autoplay video;		12	THE VIDEOGRAPHER: Off the record at
	in fact, the autoplay may not	13	3:23 p.m.
	nay not even be the next it	14	(Recess taken.)
· ·	as the next video, they may just be 3:19PM	15	VIDEOGRAPHER: We're back on the record. 3:34PM
16 also named like MI	• •	16	The time is 3:34 p.m. Pacific time.
	hat's what I'm trying to get	17	MR. BOYEA: We're going to introduce
18 at.		18	
	circumstances where the cast	19	screenshots, Mr. Mo, that I want you to take a look
	e in the watch next response a 3:19PM	20	
	video, but that doesn't have to	21	And I'm going to just walk through them
22 be the autoplay vide		22	with you and see if you can explain some things to
	are cases where the next one	23	me. This is going to be marked as Mo Exhibit 8.
	ssociated with the autoplay.	24	(Exhibit 8 was marked for identification.)
Q Let's continu	ue with that example. 3:20PM Page 174	25	MR. BOYEA: It should be coming through Page 176
			<u> </u>
	receiver store the video ID 3:20PM		now. 3:35PM
2 of the next video so		2	THE WITNESS: I have it loaded.
	where the watch next response	3	
	because I would imagine the watch	4	Q Okay. All right. Mr. Mo, these are some
	he model is stored in memory. 3:20PM	5	1
	ceiver finishes playing the	6	was done on an iPhone and there is a cast session
·	the receiver then use that next	7	that's established.
9 request?	n memory to make the get player	8	In Screenshot 1 we see that there is a
		9	In Screenshot 1 we see that there is a first video being played with the title that has
	where the watch next response 3:20PM	9	In Screenshot 1 we see that there is a first video being played with the title that has "Max Homa," H-O-M-A in it. 3:35PM
11 contains let's say an	where the watch next response 3:20PM autoplay set renderer for the	9 10 11	In Screenshot 1 we see that there is a first video being played with the title that has "Max Homa," H-O-M-A in it. 3:35PM Do you see that?
11 contains let's say an 12 next something c	where the watch next response 3:20PM autoplay set renderer for the alled next I forget the exact	9 10 11 12	In Screenshot 1 we see that there is a first video being played with the title that has "Max Homa," H-O-M-A in it. 3:35PM Do you see that? A Yes, I do.
11 contains let's say an 12 next something c 13 name, next video on	where the watch next response 3:20PM autoplay set renderer for the alled next I forget the exact something rather, it will when	9 10 11 12 13	In Screenshot 1 we see that there is a first video being played with the title that has "Max Homa," H-O-M-A in it. 3:35PM Do you see that? A Yes, I do. Q In this circumstance, the speaker the
11 contains let's say an 12 next something c 13 name, next video of 14 the current song end	where the watch next response 3:20PM autoplay set renderer for the alled next I forget the exact something rather, it will when ds, it will look up that data model	9 10 11 12 13 14	In Screenshot 1 we see that there is a first video being played with the title that has "Max Homa," H-O-M-A in it. 3:35PM Do you see that? A Yes, I do. Q In this circumstance, the speaker the receiver named Speaker A is currently playing the
11 contains let's say an 12 next something c 13 name, next video on 14 the current song end 15 and then it will extr	where the watch next response 3:20PM autoplay set renderer for the alled next I forget the exact something rather, it will when ds, it will look up that data model act the appropriate endpoint for 3:21PM	9 10 11 12 13 14 15	In Screenshot 1 we see that there is a first video being played with the title that has "Max Homa," H-O-M-A in it. 3:35PM Do you see that? A Yes, I do. Q In this circumstance, the speaker the receiver named Speaker A is currently playing the Max Homa video. 3:35PM
11 contains let's say an 12 next something c 13 name, next video or 14 the current song en 15 and then it will extr 16 the next video to pl	where the watch next response 3:20PM autoplay set renderer for the alled next I forget the exact something rather, it will when ds, it will look up that data model act the appropriate endpoint for 3:21PM ay.	9 10 11 12 13 14 15 16	In Screenshot 1 we see that there is a first video being played with the title that has "Max Homa," H-O-M-A in it. 3:35PM Do you see that? A Yes, I do. Q In this circumstance, the speaker the receiver named Speaker A is currently playing the Max Homa video. 3:35PM And so would it be the case that the cast
11 contains let's say and 12 next something contains name, next video of 14 the current song end 15 and then it will extra 16 the next video to plot 17 Q Will that involve the next video to plot 17 Q Will that involve the next video to plot 17 Q Will that involve the next video to plot 17 Q Will that involve the next video to plot 18 Q Will that involve the next video to plot 19 Q Wil	where the watch next response 3:20PM autoplay set renderer for the alled next I forget the exact something rather, it will when ds, it will look up that data model eact the appropriate endpoint for 3:21PM ay.	9 10 11 12 13 14 15 16 17	In Screenshot 1 we see that there is a first video being played with the title that has "Max Homa," H-O-M-A in it. 3:35PM Do you see that? A Yes, I do. Q In this circumstance, the speaker the receiver named Speaker A is currently playing the Max Homa video. 3:35PM And so would it be the case that the cast receiver would have a video ID stored corresponding
11 contains let's say an 12 next something c 13 name, next video on 14 the current song end 15 and then it will extr 16 the next video to pl 17 Q Will that inv 18 the player service the	where the watch next response 3:20PM autoplay set renderer for the alled next I forget the exact something rather, it will when ds, it will look up that data model act the appropriate endpoint for 3:21PM ay.	9 10 11 12 13 14 15 16 17 18	In Screenshot 1 we see that there is a first video being played with the title that has "Max Homa," H-O-M-A in it. 3:35PM Do you see that? A Yes, I do. Q In this circumstance, the speaker the receiver named Speaker A is currently playing the Max Homa video. 3:35PM And so would it be the case that the cast receiver would have a video ID stored corresponding to that video that's being played?
11 contains let's say and 12 next something contains let's say and 12 next something contains and the current song end 15 and then it will extra 16 the next video to plot 17 Q Will that involve the player service to 19 before?	where the watch next response 3:20PM autoplay set renderer for the alled next I forget the exact something rather, it will when ds, it will look up that data model act the appropriate endpoint for 3:21PM ay.	9 10 11 12 13 14 15 16 17 18 19	In Screenshot 1 we see that there is a first video being played with the title that has "Max Homa," H-O-M-A in it. 3:35PM Do you see that? A Yes, I do. Q In this circumstance, the speaker the receiver named Speaker A is currently playing the Max Homa video. 3:35PM And so would it be the case that the cast receiver would have a video ID stored corresponding to that video that's being played? MR. KAPLAN: Objection, authenticity.
11 contains let's say an 12 next something c 13 name, next video on 14 the current song en 15 and then it will extr 16 the next video to pl 17 Q Will that inv 18 the player service th 19 before? 20 A Yeah, once	where the watch next response 3:20PM autoplay set renderer for the alled next I forget the exact something rather, it will when ds, it will look up that data model fact the appropriate endpoint for 3:21PM ay. Tolve a get player request to that we were talking about 3:21PM at the obtains a video ID from that 3:21PM	9 10 11 12 13 14 15 16 17 18 19 20	In Screenshot 1 we see that there is a first video being played with the title that has "Max Homa," H-O-M-A in it. 3:35PM Do you see that? A Yes, I do. Q In this circumstance, the speaker the receiver named Speaker A is currently playing the Max Homa video. 3:35PM And so would it be the case that the cast receiver would have a video ID stored corresponding to that video that's being played? MR. KAPLAN: Objection, authenticity. THE WITNESS: Sorry, can you walk me 3:36PM
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11 contains let's say an 12 next something c 13 name, next video on 14 the current song end 15 and then it will extr 16 the next video to pl 17 Q Will that inv 18 the player service th 19 before? 20 A Yeah, once 21 model, it will gener 22 playback, which is	where the watch next response 3:20PM autoplay set renderer for the alled next I forget the exact something rather, it will when ds, it will look up that data model act the appropriate endpoint for 3:21PM ay. Volve a get player request to nat we were talking about it obtains a video ID from that 3:21PM ally go through the same flow for making the get player request and	9 10 11 12 13 14 15 16 17 18 19 20 21 22	In Screenshot 1 we see that there is a first video being played with the title that has "Max Homa," H-O-M-A in it. 3:35PM Do you see that? A Yes, I do. Q In this circumstance, the speaker the receiver named Speaker A is currently playing the Max Homa video. 3:35PM And so would it be the case that the cast receiver would have a video ID stored corresponding to that video that's being played? MR. KAPLAN: Objection, authenticity. THE WITNESS: Sorry, can you walk me 3:36PM through like the scenario of which you've got here? BY MR. BOYEA:
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1 what's named Speaker A. 3:36PM	1 when that setting changes, which then will get a new 3:40PM
2 And so my first question is: Would the	2 response that I don't think will contain the
3 Hub display have a video ID corresponding to the Max	3 autoplay endpoint.
4 Homa video that's being played?	4 BY MR. BOYEA:
5 MR. KAPLAN: Object to form. 3:37PM	5 Q And so if the autoplay toggle was turned 3:40PM
6 THE WITNESS: It's hard for me to answer	6 back on, though, would there be an additional watch
7 or say based off of a screenshot.	7 next request and watch next response where the cast
8 BY MR. BOYEA:	8 receiver can receive a new video ID for a new
9 Again, I'm trying to use these screenshots	9 autoplay video?
10 to direct what is going on because you can't really 3:37PM	And that's what's being show here, that's 3:40PM
11 take a picture of what a what speakers are doing	11 what I'm trying to use with these examples, you can
12 when they are playing video and the like.	12 see Screenplay 1, autoplay is on, there's a first
So I don't want you to get so worried	13 video underneath called "Playing Sheep Ranch" is the
14 about what is being displayed on the screen, but the	14 beginning of the title.
15 general functionality is really what I'm interested 3:37PM	Screen 2, autoplay is off. And then 3:41PM
16 in.	16 Screen 3, autoplay is back on and the autoplay video
So in an example like this where a Hub	17 is "2001 Masters Tournament."
18 device is playing a song from YouTube and it's in a	Do you see that? So that's what I'm
19 cast session, it would have a video ID retained	19 really trying to ask you about here.
20 locally corresponding to the video that it's 3:38PM	20 So let me reframe the question. 3:41PM
21 playing; right?	21 So if autoplay is turned on from a state
MR. KAPLAN: Object to form.	22 when it was turned off, will the cast receiver make
THE WITNESS: Yes, the receiver would have	23 a new watch next request?
24 a video ID for the actual video that is playing on	24 MR. KAPLAN: Object to form.
25 the device, on the receiver device. 3:38PM	25 THE WITNESS: From memory, I'm not certain 3:41PM
Page 178	Page 180
1 BY MR. BOYEA: 3:38PM	1 what actually happens on the receiver side. 3:41PM
2 And assuming autoplay is on, like in this	2 BY MR. BOYEA:
3 example shown in Screenshot 1, the cast receiver	3 Q If the queue is presented in a screen
4 would also have a video ID retained locally that	4 showing a different video like we see in
5 corresponds to the autoplay video; correct? 3:38PM	5 Screenshot 3, would it be reasonable that the cast 3:42PM
6 A I'm assuming that this refers to this	6 receiver would have to receive a new watch next
7 toggle refers to the MDx autoplay. Again, if that's	7 response?
8 enabled, the receiver will have a watch next could	8 MR. KAPLAN: Objection, calls for
9 have a watch next response containing the autoplay	9 speculation.
10 endpoint. 3:39PM	10 THE WITNESS: Can you repeat that? 3:42PM
11 Q Okay. And so if the autoplay toggle is	11 BY MR. BOYEA:
12 turned off while the receiver is playing the current	12 Q Yes. So, I mean, looking at the screen
13 video, will that autoplay response that it had	13 as Google's 30(b)(6) witness on autoplay, which is
14 retained locally, will that be like deleted, erased?	14 subtopic what do we have here? This is
15 Do you know what I'm saying? 3:39PM	15 subtopic 7 of Topic 1, I'm trying to get an 3:42PM
16 MR. KAPLAN: Object to form.	16 understanding of what happens in this particular use
17 THE WITNESS: I don't know if I'm from	17 case that we have displayed here in Exhibit 8.
18 memory whether that gets deleted or not or if it	And so from Screenshot 2 to Screenshot 3,
19 makes another watch next	19 we see that autoplay goes from being off to on and
20 THE REPORTER: I'm sorry, I didn't 3:40PM	20 for Google, I want to know what happens in this 3:42PM
21 understand that.	21 particular situation, and especially with respect to
22 THE WITNESS: I don't know from memory	22 any watch next request and response.
23 whether the client deletes or does anything with	22 any watch next request and response.
	23 MR. KAPLAN: Object to form.
24 the current the current copy of the watch next	
24 the current the current copy of the watch next 25 response or if it makes another watch next request 3:40PM	23 MR. KAPLAN: Object to form.
	MR. KAPLAN: Object to form. THE WITNESS: In the case where YouTube

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1 this tog has an MDx auto playing toggle, again, 2:43PM 2 assuming that's what that is in the screenshot, I 3 don't know for sure. Assuming that's the case, that 4 toggle essentially that setting results in a 5 message sent from sender to session server, which 3:43PM 6 then gets forwarded to the cast receiver. And then 7 the cast receiver is made aware of the autoplay 8 setting made by the sender/user. 9 What I don't know from memory is whether 10 that triggers another watch next request or whether 11 it results in discarding the autoplay response that 12 may have already been returned. 13 BY MR. BOYEA: 14 Q You would agree with me in this scenario 15 that we're depicting here, that after the cast 3:44PM 16 receiver finishes playing that first Max Homa video. 17 it would then play the new autoplay video "2001 18 Masters Tournament" as opposed to the "Playing Sheep 19 Ranch" video; right? 20 Q So the cast receiver is currently playing 21 Max Homa; right, the video with the title Max Homa? 22 Max Homa; right, the video with the title Max Homa? 24 A Okay. 25 Q After the cast receiver finishes playing 3:45PM 1 for is subpart 3 of Topic 1, which is the design and 3:46PM 2 operation of the aforementioned stream transfer 2 operation of the aforementioned stream transfer 2 operation of the aforementioned stream transfer 3 accused functionality relating to the YouTube apps. 4 And when I asked you earlier, you had 5 moted that you don't have knowledge of the stream 3:47PM 5 transfer function. Is that accurate? Did I get 7 that right in your testimony earlier? 8 MR. KAPLAN: Object to form. 9 THE WITNESS: Sorry, I don't remember the 10 entire context of that question. 3:47PM 11 BY MR. BOYEA: 12 Q All right. So maybe why don't I start 13 over for us then. 14 So are you familiar with the feature 15 called "stream transfer" in the context of any of 3:47PM 16 the YouTube apps? 17 A Yes, Ive heard of stream transfer feature. 18 Q Are you knowledgeable regarding the 19 implementation details of that feature? 20 A I have
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21 it play the can you repeat that? 22 Q So the cast receiver is currently playing 23 Max Homa; right, the video with the title Max Homa? 24 A Okay. 21 YouTube. 22 MR. BOYEA: Okay. So why don't we go 23 ahead and introduce a new document here. And Jae is 24 going to pull that up for us. That's going to be
Q So the cast receiver is currently playing A Okay. 22 MR. BOYEA: Okay. So why don't we go 23 ahead and introduce a new document here. And Jae is 24 going to pull that up for us. That's going to be
23 Max Homa; right, the video with the title Max Homa? 24 A Okay. 23 ahead and introduce a new document here. And Jae is 24 going to pull that up for us. That's going to be
24 going to pull that up for us. That's going to be
O After the cast receiver finishes playing 3:45PM 25 identified as Mo Exhibit 9 for identification 3:48PM
Page 182
Tuge 102
1 that video, you agree that the "2001 Masters" 1 purposes. 3:48PM
2 Tournament" video would be played instead of the 2 (Exhibit 9 was marked for identification.)
3 "Playing Sheep Ranch" video; right? 3 BY MR. BOYEA:
4 Q Mr. Mo, you should see that now and go
5 THE WITNESS: If I'm just looking at 3:45PM 5 ahead and read that when you get the chance. 3:49PM
6 Screenshot Number 3, that's what it shows as the 6 MR. BOYEA: For the record, this is a
7 autoplay video. So I don't see "Sheep Ranch" in 7 document entitled "Cast Stream Transfer and YouTube"
8 Screenshot 3. 8 and the first Bates-labeled page shows
9 BY MR. BOYEA: 9 GOOG-SONOSWDTX-00041934.
Q Right. And so that's what I'm trying to 3:45PM 10 Q Mr. Mo, let me know when you have that 3:49PM
11 get at. 11 open.
So it would seem reasonable, right, that 12 A I have that open.
13 the cast receiver would have to obtain that 13 Q You're familiar with this document;
14 information somehow that has to play the "2001" 14 correct?
15 Masters Tournament" video instead of the "Playing" 3:46PM 15 A I see my name at the top. Let me review 3:49PM
16 Sheep Ranch" video that was in Screenshot 1; right? 16 this.
16 Sheep Ranch" video that was in Screenshot 1; right? 17 A Yes, that's possible. 18 this. 19 I skimmed through it.
16 Sheep Ranch" video that was in Screenshot 1; right? 17 A Yes, that's possible. 18 Q It's not only possible, but is there any 18 Q Your name is next to owner; correct?
16 Sheep Ranch" video that was in Screenshot 1; right? 17 A Yes, that's possible. 18 Q It's not only possible, but is there any 19 other way for that to happen in this situation? 10 this. 11 I skimmed through it. 12
16 Sheep Ranch" video that was in Screenshot 1; right? 17 A Yes, that's possible. 18 Q It's not only possible, but is there any 19 other way for that to happen in this situation? 19 MR. KAPLAN: Object to form. 20 What does that mean that you're the owner 3:51PM
16 Sheep Ranch" video that was in Screenshot 1; right? 17 A Yes, that's possible. 18 Q It's not only possible, but is there any 19 other way for that to happen in this situation? 19 MR. KAPLAN: Object to form. 20 MR. KAPLAN: Object to form. 21 THE WITNESS: Again, within the context of 16 this. 17 I skimmed through it. 18 Q Your name is next to owner; correct? 19 A Yes, I see that. 20 Q What does that mean that you're the owner 3:51PM 21 of this document?
16 Sheep Ranch" video that was in Screenshot 1; right? 17 A Yes, that's possible. 18 Q It's not only possible, but is there any 19 other way for that to happen in this situation? 20 MR. KAPLAN: Object to form. 21 THE WITNESS: Again, within the context of 22 MDx autoplay, I'm only aware of it being made 16 this. 17 I skimmed through it. 18 Q Your name is next to owner; correct? 19 A Yes, I see that. 20 Q What does that mean that you're the owner 3:51PM 21 of this document? 22 A Generally it just means that, you know,
16 Sheep Ranch" video that was in Screenshot 1; right? 17 A Yes, that's possible. 18 Q It's not only possible, but is there any 19 other way for that to happen in this situation? 20 MR. KAPLAN: Object to form. 21 THE WITNESS: Again, within the context of 22 MDx autoplay, I'm only aware of it being made 23 available via watch next response. 16 this. 17 I skimmed through it. 18 Q Your name is next to owner; correct? 19 A Yes, I see that. 20 Q What does that mean that you're the owner 3:51PM 21 of this document? 22 A Generally it just means that, you know, 23 whoever is on that file sorry, on that line has
16 Sheep Ranch" video that was in Screenshot 1; right? 17 A Yes, that's possible. 18 Q It's not only possible, but is there any 19 other way for that to happen in this situation? 20 MR. KAPLAN: Object to form. 21 THE WITNESS: Again, within the context of 22 MDx autoplay, I'm only aware of it being made 16 this. 17 I skimmed through it. 18 Q Your name is next to owner; correct? 19 A Yes, I see that. 20 Q What does that mean that you're the owner 3:51PM 21 of this document? 22 A Generally it just means that, you know,

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		T	
1 contrib	oute to this document, the authorship of it? 3:52PM	1	MR. KAPLAN: Objection, scope. 3:56PM
2 A	It's I don't have any concrete memory of	2	THE WITNESS: Someone from Google HR.
3 what I	added. It's possible, yes.	3	BY MR. BOYEA:
4 Q	Does your name appear next to the owner	4	Q But you don't know whether that individual
5 line of	many Google documents that you didn't 3:52PM	5	is still at Google; is that your testimony? 3:56PM
6 contrib	oute to?	6	MR. KAPLAN: Objection.
7 1	MR. KAPLAN: Object to form, scope.	7	THE WITNESS: Where I am right now,
8 7	THE WITNESS: There are lots of Google	8	current I don't know.
9 docum	ents, so I can't say.	9	BY MR. BOYEA:
10 BY MI	R. BOYEA: 3:52PM	10	Q Go ahead and turn to PDF Page 5 of this 3:56PM
11 Q	So your testimony is that the owner line	11	document, ending in 938 in the Bates number.
12 with yo	our name next to it does not mean that you	12	A Okay.
13 contrib	outed to this document?	13	Q Go ahead and read starting from the
14 1	MR. KAPLAN: Objection, misstates	14	paragraph that says "Instead" through the Number 7
15 testimo	ony, form, scope. 3:52PM	15	bullet point that's listed there. 3:56PM
16	THE WITNESS: No, I'm not saying that I	16	Because I want to ask you about these
17 did not	t contribute to it, rather I don't remember	17	steps that are specified here.
18 exactly	what I contributed to this doc.	18	A Okay. I've read to Step 7.
19 BY MI	R. BOYEA:	19	Q So my question is: Is this an accurate
20 Q	But this is a Google document; right? 3:53PM	20	explanation of how stream transfer works for the 3:58PM
21 A	It looks like one.	21	YouTube apps?
22 Q	And your name appears to it; right?	22	A What is actually described here from my
23 A	Yes.	23	understanding is rather vague and not accurate.
24 Q	It's dealing with the subject matter is	24	Q What is not accurate about what is
25 "cast st	tream transfer." 3:53PM		described here? 3:58PM
	Page 186		Page 188
1 2	And this presumably is written for other 3:53PM	1	A Some of the wording, particularly "Kabuki 3:58PM
2 people	working on the cast stream transfer at	2	loads itself" better than we do that. It relies on
3 Google	e; right?	3	the cast device to do that.
4 A	That's rather vague. Again, there's	4	This also implies that this also
5 multip	le owners of the file. It's hard to identify 3:53PM	5	implies that when stream transfer occurs between in 3:59PM
6 there is	s no rhyme or reason what the original intent	6	multiple receiver devices that YouTube runs on, if
7 of this	was.	7	the if a previous sender was connected to the
8 Q	You've taken a look at this document.	8	first device, that it would reconnect to the new
9 What v	was the purpose of this document?	9	device. I don't think it actually happens today.
10 A	From reading this, it looks like a 3:54PM	10	Q All right. So yes, I want to know what 3:59PM
11 project	t/mini design doc explaining the topic of cast	11	actually happens today in certain transfer contexts.
12 stream	transfer and YouTube.	12	I was hoping that this could guide that discussion.
13 Q	Next to the owner, there's also the name	13	But maybe we can walk through the steps
14 "foxyk	H XXII 1	14	and you can tell me if that happens today or not.
15 A	eep." Who or what is foxykeep a reference to?		and you can ten me it and happens today of non
15 A	I previously worked with foxykeep would 3:55PM	15	And I'm going to modify the situation because what 4:00PM
	• •		And I'm going to modify the situation because what 4:00PM
	I previously worked with foxykeep would 3:55PM outback or email alias or email, sorry, for	15	And I'm going to modify the situation because what I'm interested in is the original device being a Hub
16 be the	I previously worked with foxykeep would 3:55PM outback or email alias or email, sorry, for	15 16	And I'm going to modify the situation because what I'm interested in is the original device being a Hub device. Do you follow me there?
16 be the17 the eng18 Q	I previously worked with foxykeep would 3:55PM outback or email alias or email, sorry, for gineer.	15 16 17	And I'm going to modify the situation because what I'm interested in is the original device being a Hub device. Do you follow me there? A Yes. And which YouTube app are we talking
16 be the 17 the eng 18 Q 19 A	I previously worked with foxykeep would 3:55PM outback or email alias or email, sorry, for gineer. What engineer?	15 16 17 18	And I'm going to modify the situation because what I'm interested in is the original device being a Hub device. Do you follow me there? A Yes. And which YouTube app are we talking about?
16 be the constant of the eng 18 Q 19 A 20 worked	I previously worked with foxykeep would 3:55PM outback or email alias or email, sorry, for gineer. What engineer? Nicholas, his last name. So he previously d on Orbit. 3:55PM	15 16 17 18 19	And I'm going to modify the situation because what I'm interested in is the original device being a Hub device. Do you follow me there? A Yes. And which YouTube app are we talking about?
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16 be the 17 the eng 18 Q 19 A 20 worked 21 Q 22 A	I previously worked with foxykeep would 3:55PM outback or email alias or email, sorry, for gineer. What engineer? Nicholas, his last name. So he previously d on Orbit. 3:55PM Is Nicholas still at Google?	15 16 17 18 19 20 21	And I'm going to modify the situation because what I'm interested in is the original device being a Hub device. Do you follow me there? A Yes. And which YouTube app are we talking about? Q Why don't we start with the YouTube main app running on the Hub device, if that works for you.
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16 be the 17 the eng 18 Q 19 A 20 worked 21 Q 22 A 23 Q	I previously worked with foxykeep would 3:55PM outback or email alias or email, sorry, for gineer. What engineer? Nicholas, his last name. So he previously d on Orbit. 3:55PM Is Nicholas still at Google? I don't know. Who would know the answer to that question oxykeep is and whether that person still works	15 16 17 18 19 20 21 22 23	And I'm going to modify the situation because what I'm interested in is the original device being a Hub device. Do you follow me there? A Yes. And which YouTube app are we talking about? Q Why don't we start with the YouTube main app running on the Hub device, if that works for you. A Okay. Q My understanding is the user is presented

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1 device and that will pull up a menu that says "cast 4:00PM		
device and that will pair up a mona that says east	1	So on resolving that, what happens at 4:03PM
2 to" and it will show any video devices that are	2	least from the perspective of YouTube on that device
3 available.	3	is the cast receiver, whatever device it is let's
4 Is that consistent with your	4	assume that it's another Nest Hub, it loads the
5 understanding? 4:00PM	5	appropriate cast receiver app. 4:04PM
6 A You're talking about the UI within the	6	And then upon loading, the cast SDK
7 Google Hub device; right?	7	invokes the other callback, I believe it's resume
8 Q Correct.	8	session, something like that.
9 A Yes, in the devices shown would be in the	9	Essentially that API passes along the
10 supported cast enabled devices. That's my 4:01PM	10	serialized what do you call it playback state 4:04PM
11 understanding.	11	that the original device or the original YouTube
12 Q So the user could decide to transfer the	12	client had sent. So it will then unpack that and
13 video playback from the Hub to another screen	13	from that data payload, it will then know like which
14 device; correct?	14	playback to actually resume playback for.
15 A Yes, that's possible. 4:01PM	15	Q That was super helpful and there is a lot 4:05PM
16 Q Okay. So that's the context that I want	16	
17 to work in here with the YouTube app.	17	Let's start at the end where we're talking
So I want to know we don't know if	18	about the destination. I can use source as the
19 you can explain it to me without us going through	19	first one and we'll use the destination at the
20 these steps on the paper, that's fine. I just want 4:01PM	$\begin{vmatrix} 20 \\ 21 \end{vmatrix}$	second one. 4:05PM So we're at the destination receiver.
21 to know the different messages, the different		
22 processes that happen there.	22	That will the playback state, I think you called
So what happens after the user selects to	23	it, in the resume session message potentially, will
24 transfer from the Hub to another screen device?	24	that cause that destination device to load the
A Sure. So the stream transfer as YouTube 4:01PM	25	applicable YouTube app? 4:05PM
Page 190		Page 192
1 implemented is built on what is provided by the cast 4:01PM	1	MR. KAPLAN: Object to form. Go ahead. 4:05PM
1 implemented is built on what is provided by the cast 4:01PM	1	MR. KAPLAN: Object to form. Go ahead. 4:05PM
1 implemented is built on what is provided by the cast 4:01PM 2 SDK, specifically there are, I believe, two APIs, the	1 2	MR. KAPLAN: Object to form. Go ahead. 4:05PM THE WITNESS: No, because when you say
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1 implemented is built on what is provided by the cast 4:01PM 2 SDK, specifically there are, I believe, two APIs, the 3 cast SDKs I don't recall the exact name, but they 4 are something like store store session and resume 5 session. Essentially there's two API. 4:02PM 6 So when on the original Nest Hub 7 device, let's call that the source device. 8 Q Okay. 9 A When a user selects a device to transfer to, 10 the YouTube client will get a callback from the cast 4:02PM 11 SDK to store state essentially. And what that does is	1 2 3 4 5 6 7 8 9 10	MR. KAPLAN: Object to form. Go ahead. 4:05PM THE WITNESS: No, because when you say "load the YouTube app," I think of that as the cast device, you know, the OS or the infrastructure is the part that is responsible for so at that 4:05PM point, the YouTube app is already loaded. BY MR. BOYEA: Q Okay. So at the point that the destination receiver receives resume session, the YouTube app was already launched; is that the case? 4:06PM A Yes.
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1	BY MR. BOYEA: 4:39PM	1	correct? 4:42PM
2	Q Welcome back, Mr. Mo. Let's return if	2	A So to clarify, you're asking for on the
3	you could pull up Exhibit 5 again. Let me know once	3	right, Screenshot 4 would be what happens in the
4	you have that up.	4	context of casting?
5	A Yes. 4:39PM	5	Q I'm trying to use the screenshots to give 4:42PM
6	Q Go to Page 2 sorry, if you can go ahead	6	you context of what is currently in the queue on the
7	and go to Page 2 when you get a chance.	7	phone and I want to know what happens with respect
8	A Okay.	8	to what is ultimately in the shared queue once the
9	Q All right. So I want to ask you some	9	cast session is created, if you will?
10	questions on the what we referred to earlier as 4:39PM	I 10	A If you could provide maybe a little bit more 4:43PM
11	the shared queue in the MDx context. Okay?	11	concrete example and we can walk through phases, that
12	A Mm-hmm.	12	may help to provide an answer.
13	Q As a starting point, what is Orbit? Is	13	Q Yes. So the phases are as shown in
14	Orbit and MDx, are those synonymous?	14	these screenshots, the current song that's being
15	A It's confusing even internally. 4:40PM	15	played is "Come Together" by the Beatles and there 4:43PM
16	Orbit is generally the name of the	16	is an autoplay section with various songs below it.
17	YouTube the previous name for the YouTube team	17	Do you see that there on Screenshot 4?
18	that, you know, owns the MDx stack. That's one of	18	A Yes.
19	the things that they own.	19	Q And so the scenario would be a user then
20	But then sometimes people will refer to 4:40PM	20	pressing the cast icon shown in Screenshot 3 to 4:43PM
21	the MDx stack as Orbit as well.	21	cause a cast session to be created with a cast
22	Q Okay. So if I see documentation referring	22	receiver?
23	to like an Orbit queue, is that the same thing as	23	A Okay. Yeah, I don't know.
24	the shared queue?	24	Q So as Google's 30(b)(6) designee for
25	MR. KAPLAN: Object to form. 4:40PM Page 206	25	subpart 2 of Topic 1, your answer is you don't know 4:44PM Page 208
1	THE WITNESS: I don't know without 4:40PM	1	for Google? 4:44PM
2	actually seeing the content.	2	MR. KAPLAN: Objection, form, misstates
3	BY MR. BOYEA:	3	testimony and the context.
4	Q With the limited time we have, maybe we'll	4	THE WITNESS: Yeah, it's hard to say for
5	just have to ask another witness that. 4:41PM	5	this specific screenshot that I am not familiar 4:44PM
6	So looking at Screenshots 3 and 4 shown on	6	with.
7	Page 2 here, we have the YouTube Music app. This is	7	BY MR. BOYEA:
8	before a cast session is invoked; okay?	8	Q Are you familiar with let's step away
9	A Yes.	9	from the screenshot, I guess so a circumstance
10	Q You'll see in Screenshot 4, there is a 4:41PM	10	where YouTube Music is being played on a sender, 4:44PM
11	first song followed by songs listed under autoplay;	11	there is an autoplay section of music that's
12	right?	12	populated on the sender and then the sender casts to
13	A Yes.	13	a cast receiver.
14	Q What I want to know is: When the cast	14	Are you generally aware of that type of
15	session is invoked, will the shared queue get 4:41PM	15	circumstance? 4:45PM
16	populated with the currently playing song and the	16	A I'm less familiar with just this list of
17	songs following the autoplay section?	17	songs under the autoplay, the autoplay section.
18	A I don't know.	18	Q As Google's corporate designee on casting
19	Q Who would know the answer to that?	19	and on autoplay, at least for YouTube Music, you
20	A Given this looks like YouTube Music, which 4:42PM	20	don't know anything beyond what I've been asking you 4:45PM
21	is the app that's shown here, it's a YouTube Music	21	about; is that right?
22	functionality, so somebody from the YouTube Music	22	A I don't know the specifics.
23	team.	23	Q Okay. So you can't tell me what happens
24	Q And this is functionality related to	24	in the shared queue in this particular example that
25	casting from YouTube Music to a cast receiver; 4:42PM	25	I am curious about? 4:45PM
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1 A Yeah, I don't know specifically I don't 4:46PM	1) MR. BOYEA: All right. Because that was 5:31PM
2 know what happens with the autoplay, those songs	2 part of the 30(b)(6) conversation, I'm going to ask
3 underneath the autoplay. I would say that's a YouTube	3 that this be part of the 30(b)(6) portion of the
4 Music feature.	4 transcript, if you're good with that, Marc.
5 MR. BOYEA: At this point this is going to 4:46PM	5 MR. KAPLAN: I think that's fair. 5:31PM
6 conclude Sonos's questions for today on the 30(b)(6)	6 BY MR. BOYEA:
7 topics. However, Sonos is going to leave the	7 Q Mr. Mo, can you just tell me what exhibit?
8 30(b)(6) deposition of Google open on Topics	8 A Exhibit 5 at Page 2.
9 Topic 1, subparts 2 through 7 in view of Google's	9 Q All right. This is the page that has
10 late production of source code printouts that 4:46PM	10 Screenshot 3 and Screenshot 4; is that right? 5:32PM
11 Sonos's counsel is still not in possession of and in	(11) A Yes.
12 view of Sonos's review of the transcript that	Q So what did you want to talk about in this
13 reveals any topics that Mr. Mo was not prepared to	(13 exhibit?)
14 testify about.	A I was wondering if you could would you be
MR. KAPLAN: For the record, we disagree 4:47PM	15 able to find or explain the content underneath this 5:32PM
16 with that position and we think that the deposition	16 autoplay section?
17 is excuse me, we disagree with that position and	17 I'm only asking because, again, I'm not
18 we believe that the deposition should be wrapped up	18 I don't work on YouTube Music sender app. So the UI
19 with respect to the topics that Mr. Mo was	19 is not familiar to me. So I kind of wanted to have
20 designated on. 4:47PM	20 you clarify the actual content underneath because I 5:33PM
We will however	21 might have had some misassumption about what it is.
MR. BOYEA: We will resolve that later.	Q Let me ask you this, first, Mr. Mo: Did
23 MR. KAPLAN: We will resolve it later,	23 you speak to anybody during any of the breaks about
24 agreed. And we also reserve our right to read and	24 the substance of your testimony here?
25 sign for the 30(b)(6) portion. 4:47PM Page 210	25 A No. 5:33PM Page 212
<u> </u>	
1 MR. BOYEA: All right. Do we need to jump 4:47PM	1 Q So I don't know what more information I 5:33PM
2 off to do the 30(b)(1) in a different session?	2 can give you other than the content that is
THE REPORTER: Not from my point of view.	3 appearing below the autoplay is just my
4 I'm not sure about the videographer, though. David?	4 understanding is it's additional songs that would be
5 THE VIDEOGRAPHER: No, I don't think we 4:48PM	5 played at the sender that's, you know, running the 5:33PM
6 have to. We can just make note of it and we can	6 YouTube Music app.
7 continue on.	So from the user's perspective, if I
8 MR. BOYEA: Is that okay with you, Marc?	8 listened all the way through "Come Together," "Here
9 MR. KAPLAN: That's fine with me. It	9 Comes the Sun" would play immediately following
10 sounds like the transcript is going to show that we 4:48PM	10 that. 5:34PM
11 ended the 30(b)(6) session and we're starting the	11 A Okay. So that those content underneath,
12 30(b)(1) session and that's all we're looking for.	12 what would happen if autoplay is turned off?
13 The separately transcribed I think just	Q My understanding, at least from the screenshot level, the user-facing level, those would
14 means having some indicator designation showing that 15 we're switching over, which it sounds like we have. 4:48PM	
8 ,	15 go away and all you would see is "Come Together" in 5:34PM 16 this particular instance.
16 (Discussion off the record.) 17 (The following testimony was amended to	16 this particular instance.17 A I see, okay.
18 the end of the 30(b)(6) deposition as requested by	18 Q Does that refresh your recollection on
19 Counsel.)	19 anything that we talked about before that you would
20 THE WITNESS: I do have something that I 5:31PM	20 want to go over again or 5:34PM
21 was thinking at the last break over a screenshot in	21 A No. So I wasn't sure whether if I was
was unliking at the last break over a screenshot in 22 particular that was presented to me.	22 thinking that everything down there was autoplay, just
23 I was wondering if that was something that	23 because it was underneath the autoplay text. But I
24 I can clarify to see if we can further discuss	24 should have clarified further with you.
25 actually? 5:31PM	25 But no, I think how you explained it, even 5:35PM
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	with that, I don't know what happens. 5:35PM	1	A I was on the platform software team 4:52PM
2	MR. BOYEA: Okay. Fair enough. I	2	sorry, platform infrastructure engineering. It's part
1	appreciate you trying to clarify that and to see if	3	of the data center infrastructure PA.
4	you could give any more testimony on it.	4	Q Then we did you get involved with YouTube?
5	(Start of 30(b)(1) testimony.)	5	A I joined YouTube in 2016. 4:52PM
6	BY MR. BOYEA:	6	Q It looks like we may have a copy here.
7	Q So we're going to transition over to the	7	MR. BOYEA: Jae, can you go ahead and
8	30(b)(1) portion of the deposition.	8	introduce that for us as the next exhibit, which
9	So, Mr. Mo, I'm now going to ask you	9	would be Mo Exhibit 11?
10	questions in your personal capacity. 4:49PM	10	(Exhibit 11 was marked for identification.) 4:52PM
11	We had introduced, before the deposition	11	BY MR. BOYEA:
12	started, a first exhibit which is labeled Mo	12	Q Mr. Mo, let me know when you have that
13	Exhibit 1. Why don't you go ahead and open that up.	13	pulled up.
14	A Okay.	14	A Yes, I have it.
15	Q Is this a copy of your LinkedIn profile? 4:49PM	15	Q I think this one looks more like you. Is 4:53PM
16	A No, it's not.	16	this your LinkedIn profile?
17	Q Once I saw you, I did not think that this	17	A Yes, it looks like it.
18	looked like you.	18	Q All right. Did you prepare the contents
19	So do you have your own LinkedIn profile	19	of the LinkedIn profile that we have a copy of here?
20	or no? 4:49PM	20	A Like did I write this? 4:53PM
21	A Yes, I'm on LinkedIn.	21	Q Sure. Like under the experience sections,
22	Q How is your name spelled in your LinkedIn	22	did you write the descriptions that follow?
23	profile, Vince or Vincent?	23	A Yes.
24	A It's Vincent Mo.	24	Q Okay. Before you started working on the
25	Q I think Jae is going to grab that. 4:50PM Page 214	25	YouTube team, had you worked on any of Google's 4:53PM Page 210
1	Let me ask you this: When did you start 4:50PM	1	media apps at all? 4:53PM
2	working at Google?	2	A No, I did not.
3	A I started some time in 2010.	3	Q So you didn't work on the Google Play
4	Q What were you doing before you joined	4	Music app?
5	Google? 4:50PM	5	A No. 4:54PM
6	A I was a software engineer at a company	6	Q After you joined YouTube, did you work on
7	called EADS North America.	7	the Google Play Music app at all?
8	Q Okay. I have limited time, so I'm not	8	A No.
9	going to get into too much. But where were you at	9	Q Do you have Google devices at your home?
10	before that EADS North America company? 4:50PM	10	A Yes, I do. 4:54PM
11	A I was in school at UCI.	11	Q Do you have any Chromecast devices?
12	Q Did you obtain a degree at UCI?	12	A Yes.
13	A Yes, I did.	13	Q What Chromecast device do you have at
14	Q What is your degree in?	14	•
	A I have a BS in computer engineering and 4:51PM	15	A I have Chromecast Ultra, Chromecast Google 4:54PM
15	11 Thave a BB in compater engineering and 1.511 W	I	TV, probably the first generation Chromecast as well.
		16	I v, probably the first generation Chromecast as wen.
	electrical engineering. Q Do you have any other degrees?	16 17	A good number of Chromecast models for previous
16	electrical engineering. Q Do you have any other degrees?		A good number of Chromecast models for previous
16 17	electrical engineering. Q Do you have any other degrees? A No, I don't.	17	A good number of Chromecast models for previous testing and development.
16 17 18 19	electrical engineering. Q Do you have any other degrees? A No, I don't. Q No master's degrees or anything like that?	17 18 19	A good number of Chromecast models for previous testing and development. Q What about any of the Nest or Home smart
16 17 18 19 20	electrical engineering. Q Do you have any other degrees? A No, I don't. Q No master's degrees or anything like that? A Correct. 4:51PM	17 18 19 20	A good number of Chromecast models for previous testing and development. Q What about any of the Nest or Home smart speakers, do you have any of those at home? 4:55PM
16 17 18 19 20 21	electrical engineering. Q Do you have any other degrees? A No, I don't. Q No master's degrees or anything like that? A Correct. 4:51PM Q What is the date of your graduation?	17 18 19 20 21	A good number of Chromecast models for previous testing and development. Q What about any of the Nest or Home smart speakers, do you have any of those at home? 4:55PM A Yes, I do.
16 17 18 19 20 21 22	electrical engineering. Q Do you have any other degrees? A No, I don't. Q No master's degrees or anything like that? A Correct. 4:51PM Q What is the date of your graduation? A End of 2004.	17 18 19 20 21 22	A good number of Chromecast models for previous testing and development. Q What about any of the Nest or Home smart speakers, do you have any of those at home? 4:55PM A Yes, I do. Q Which ones do you have at home?
16 17 18 19 20 21 22 23	electrical engineering. Q Do you have any other degrees? A No, I don't. Q No master's degrees or anything like that? A Correct. 4:51PM Q What is the date of your graduation? A End of 2004. Q You started at Google in 2010. What were	17 18 19 20 21 22 23	A good number of Chromecast models for previous testing and development. Q What about any of the Nest or Home smart speakers, do you have any of those at home? 4:55PM A Yes, I do. Q Which ones do you have at home? A I have Nest Hub, Nest Hub Max, Nest WiFi.
16 17 18 19 20 21 22 23 24	electrical engineering. Q Do you have any other degrees? A No, I don't. Q No master's degrees or anything like that? A Correct. 4:51PM Q What is the date of your graduation? A End of 2004.	17 18 19 20 21 22	A good number of Chromecast models for previous testing and development. Q What about any of the Nest or Home smart speakers, do you have any of those at home? 4:55PM A Yes, I do. Q Which ones do you have at home? A I have Nest Hub, Nest Hub Max, Nest WiFi.

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1	A I'm unaware. 5:11PM	1	Q We talked about iOS versus Android YouTube 5:24PM
2	MR. BOYEA: Why don't we take maybe our	2	senders earlier; right?
3	last break and I'll look through my notes and see if	3	A Yes.
4	there's anything else that I want to ask Mr. Mo.	4	Q And both for both iOS and Android
5	And we can jump back on. How about at 7:20 Central 5:12PM	5	YouTube senders, a set playlist message is going to 5:25PM
6	time?	6	be sent; correct? Like it doesn't matter whether or
7	MR. KAPLAN: Okay.		not iOS or Android operating system is being used;
8	THE VIDEOGRAPHER: Off the record at		is that correct?
9	5:12 p.m.	9	MR. KAPLAN: Object to form.
10	(Recess taken.) 5:12PM	10	THE WITNESS: It depends on the 5:25PM
11	THE VIDEOGRAPHER: We're back on the	11	receiver the receiver device.
12	record at 5:22 p.m. Pacific time.		BY MR. BOYEA:
13	BY MR. BOYEA:	13	Q In what way does it depend on the receiver
14	Q All right. Mr. Mo, just a few more	14	device?
15	questions for you. 5:22PM	15	A For example, on iOS, it supports AirPlay and 5:25PM
16	Can you open up Exhibit 6 again for me?	16	AirPlay is not the same as the way that cast works.
17	A Okay.	17	Q Fair enough. Let's stick in the cast
18	Q At the very bottom of Page 1 of this	18	context.
19	exhibit, you're going to see a sentence that says, "The Cast team are thinking." 5:22PM	19	So when casting from a YouTube sender,
20 21	"The Cast team are thinking." 5:22PM Do you see that?	20	does the operating system of the YouTube sender 5:26PM matter with respect to whether or not a set playlist
21 22	A I'm sorry, page what?	21 22	message is sent?
23	Q The first page, the very bottom of the	23	A No. IOS YouTube clients or Android YouTube
24	first page.	24	clients that supports the MDx library will go through
25	A Okay. Yes, I see it. 5:22PM		the same path. 5:26PM
23	Page 226		Page 228
	0.0		0 1 11 2 1 1 1 1 1 1 1 1 1
1	Q Can you read that paragraph that starts, 5:22PM	1	Q And in terms of the cast receiver and 5:26PM
$\begin{vmatrix} 2 \\ 2 \end{vmatrix}$			let's limit the cast receiver again to Google's own cast receiver, so the Chromecast devices, the Nest
3 4		3	and the Home smart speakers. Okay?
5	A Okay. I just read it. Q Do you know, is what's being discussed 5:23PM	5	Will the cast receiver operate the same in 5:26PM
6		6	the YouTube context regardless of whether an Android
7	and cast, is that something that the cast team is	7	or an iOS sender is involved?
8	currently working on?	8	MR. KAPLAN: Object to form.
9		9	THE WITNESS: I'm unaware of any logic on
10	•	10	the receiver side that differs depending on iOS or 5:27PM
11	Q To your knowledge, is this relayed casting	11	Android alone.
12		12	BY MR. BOYEA:
13	that implemented in any way currently?	13	Q We spoke earlier about a message that the
14	A From my recollection, I believe that it's	14	sender the YouTube sender will transmit to a cast
15	supported at least in some cases. I don't know what 5:23PM	15	receiver to instruct it to launch a specific app. 5:27PM
16	the some cases are.	16	Do you recall that?
17	Q Do you know, is that a feature that is	17	A Can you repeat that?
18	used by the general public today when using casting?	18	Q Yes. So earlier we talked about how a
19	A I actually don't know.	19	YouTube sender will transmit a message in a cast
20	MR. KAPLAN: Object to form on that. 5:24PM	20	context to instruct the cast receiver to launch a 5:28PM
21	BY MR. BOYEA:	21	particular YouTube app.
22	Q Are you aware of any changes to how sender	22	Do you remember that?
23	devices discover cast targets on a local area	23	A Yes. Was there a specific can you jog my
24	network?	24	memory whether that was a specific like a user flow?
25	A No, I'm not aware. 5:24PM	25	Q No, we were just saying in the general 5:28PM
25	Page 227		Page 229

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1 Q Well, I don't want to keep you too long, 5:29PM 2 but I want to unpack this because I thought we had 3 discussed this earlier but maybe not. 4 So the sender device running a YouTube 4 So pp, when a user wants to cast to a cast receiver, 5:30PM 6 something has to be sent to the cast receiver to 7 tell it to launch a specific YouTube app; right? 8 A Yes, something went one way or another 9 somehow. 10 Q Right. And my question is: That's 5:30PM 11 applicable both in the iOS and Android context; 12 right? When the sender is an iOS or Android device, 13 something gets sent to cause the cast receiver to 14 launch a YouTube app; right? 15 A I would believe so. 5:30PM 16 MR. BOYEA: Okay. I think that is all I 17 have for you today, Mr. Mo. I appreciate your time. 18 I wish we would have met in different circumstances, 19 but I thank you for your time today. 20 (The following testimony was attached to 5:31PM 21 the end of the 30(b)(6) deposition as requested by 22 Counsel.) 19 tous peak to anybody during any of the breaks about 5:33PM 2 the substance of your testimony here? 3 A No. 4 Q So I don't know what more information I 5 can give you other than the content that is 5:33PM 6 appearing below the autoplay is just my 7 understanding is it's additional songs that would be 8 played at the sender that's, you know, running the 9 YouTube Music app. 10 So from the user's perspective, if I 5:33PM 11 istened all the way through "Come Together," "Here 12 Comes the Sun" would play immediately following 13 that. 14 A Okay. So that those content underneath, 15 what would happen if autoplay is turned off? 5:34PM 16 Q My understanding, at least from the 17 screenshot level, the user-facing level, those would 18 go away and all you would see is "Come Together" in 19 this particular instance. 19 Understanding is it's additional songs that would be 10 appearing below the autoplay is just my 10 understanding is it's additional songs that would be 20 Pour YouTube Music app. 20 Comes the Sun" would play inmediately following				
3 actually? 4 specific YouTube app. 5 Is that consistent with your understanding 5:28PM 6 of how it works? 7 A I don't know the specific message or 8 messages that results from that flow. 9 Q Yes. And I think that's what you said 10 cartier, that you couldn't remember the specific 5:28PM 11 message name but there would be a message sent by 12 the sender device to the cast receiver in the cast 13 context for YouTube; is that right? 14 A Yes. I also mentioned there were different 15 layers. I know the messages that are sent at the 16 YouTube layer, but at the sort of beneath YouTube. I 17 don't know. 18 Q Right. But I think we established that 18 there has to be some message that gets sent by the 20 sender device to the cast receiver instructing the 21 card receiver to launch a specific YouTube app; 22 right? 23 A I suppose that's - something along the 24 lines of that, you know, would happen, but I don't 25 know. 26 South and the specific YouTube app; 27 right? 28 A Yes, something went one way or another 29 something has to be sent to the cast receiver to 29 tell it to launch a ypecific YouTube app; right? 20 Q Right. And my question is: That's 21 right? When the sender device running a YouTube 22 somehow. 23 Q Right. And my question is: That's 24 A Yes, something went one way or another 25 somehow. 26 Q Right. And my question is: That's 27 something gets sent to cause the cast receiver to 28 A Yes, something went one way or another 29 somehow. 30 Q Right. And my question is: That's 30 A Wes, Something went one way or another 40 A Yes, or another went in different circumstances, 41 but I want to unpack this because I thought we had 42 the end of the 30(b)(6) deposition as requested by 43 content of the test and the content undermeath because I thought we had 44 of that this began to find a device to the cast receiver to 45 and the content that is all I I 46 A Yes, something went one way or another 47 transcript, if you're good with that, Mar. 48 MR. BOYEA: All right. This is 30(b)(6) deposition is death of the t	1	context of this casting of a YouTube app, that there 5:28PM	1	I was wondering if that was something that 5:31PM
4 Specific YouTube app. 5 Is that consistent with your understanding 5:28PM 6 of how it works? 7 A I don't know the specific message or 8 messages that results from that flow. 8 messages that results from that flow. 9 Q Yes. And I think that what you said 10 earlier, that you couldn't remember the specific 528PM 11 message name but there would be a message sent by 12 the sender device to the cast receiver in the cast 13 context for YouTube; is that right? 13 A Yes. I also mentioned there were different 15 layers. I know the message that are sent at the 5:29PM 16 YouTube layer, but at the sort of beneath YouTube, I 19 there has to be some message that gets sent by the 20 sender device to the cast receiver instructing the 5:29PM 11 cast receiver to launch a specific YouTube app; 12 in fail it to launch a young that was something along the 24 lines of that, you know, would happen, but I don't 25 know. 10 Q Well, I don't want to keep you too long, 5:29PM 2 but I want to unpack this because I thought we had 3 discussed this earlier but maybe not. 10 Q Right. And my question is: That's 5:30PM 6 something has to be sent to the cast receiver to 14 launch a youTube app; right? 11 Q Well, I don't want to keep you too long, 5:39PM 12 applicable both in the iOS and Android context; 12 right? When the sender is an iOS or Android device, 13 something gets sent to cause the cast receiver to 14 launch a youTube app; right? 11 A YouTube app; right? 12 A I would believe so. 5:30PM 16 MR, BOYFA: Okay. I think that is all 1 17 have for you today, Mr, Mo. I appreciate your time. 19 in the ios of the context in the cause the cast receiver to 14 launch a YouTube app; right? 2 the end of the 30(b)(6) deposition as requested by 22 Counsel.)	2		2	I can clarify to see if we can further discuss
5 part of the 30(b)(6) conversation. I'm going to ask 5:31PM 6 of how it works? 7 A I don't know the specific message or 8 messages that results from that flow. 8 Q Yes. And I think that's what you said 10 earlier, that you couldn't remember the specific 5:28PM 11 message name but there would be a message sent by 12 the sender device to the cast receiver in the cast 13 context for YouTube; is that right? 14 A Yes. I also mentioned there were different 15 loyers. I know the messages that are sent at the 5:29PM 16 YouTube layer, but at the sort of beneath YouTube, 1 17 don't know. 18 Q Right. But I think we established that 1 19 there has to be some message that gets sent by the 20 sender device to the cast receiver in the paper. but I don't 20 sender device to launch a specific YouTube appr. 21 right? 21 A I suppose that's – something along the 21 lime of that, you know, would happen, but I don't 25 know. 25 29PM 2 Uniform the specific PouTube appr. 22 of that, you know, would happen, but I don't 25 know. 25 29PM 2 but I want to unpack this because I thought we had 3 discussed this earlier but maybe not. 3 A Yes, something has to be sent to the cast receiver to 1 tell it to launch a specific YouTube appr. gight? 4 A Yes, something went one way or another 9 somethow. 5 29PM 5 20 Well, I don't want to keep you too long, 5:29PM 1 will we had 3 discussed this earlier but maybe not. 4 So the sender device running a YouTube app. when a user wants to cast to a cast receiver to 14 launch a VouTube appr. gight? 8 A Yes, something went one way or another 9 somethow. 5 20 Put me ask you this, first, Mr. Mo: Did 5:33PM 11 applicable both in the iOS and Android context; right? We had appen and the content that is 5:33PM 12 applicable both in the iOS and Android device, 10 feet and 10 feet	3	would instruct the cast receiver to launch a	3	actually?
6 of how it works? 7 A I don't know the specific message or 8 messages that results from that flow. 9 Q Yes. And I think that's what you said 10 earlier, that you couldn't remember the specific 5:28PM 11 message name but there would be a message sent by 12 the sender device to the cast receiver in the cast 13 context for YouTube: is that right? 14 A Yes. I also mentioned there were different 15 layers. I know the messages that are sent at the 5:29PM 16 YouTube layer, but at the sort of bemeath YouTube, I 17 don't know. 18 Q Right. But I think we established that 19 there has to be some message that gets sent by the 20 sender device to the cast receiver instructing the 5:29PM 21 cast receiver to launch a specific YouTube app; 22 right? 23 A I suppose that's - something along the 24 lines of that, you know, would happen, but I don't 25 know. 26 Well, I don't want to keep you too long, 27 suppose that's - something a YouTube 28 something has to be sent to the cast receiver to 29 comething has to be sent to the cast receiver to 31 a I suppose that's - something a YouTube 4 So the sender device running a YouTube 5 app, when a user wants to cast to a cast receiver to 5 something has to be sent to the cast receiver to 6 something has to be sent to the cast receiver to 7 tell it to launch a specific YouTube app; right? 8 A Yes, something went one way or another 9 somehow. 10 Q Right. And my question is: That's 11 sistened all the way that is. 12 Q Let me ask you this, first, Mr. Mo: Did 5:33PM 14 applicable both in the iOS and Android context; 15 right? When the sender is an iOS or Android device, 16 MR. BOYEA: Okay. I think that is all I 17 have for you today, Mr. Mo. I appreciate your time. 18 I wish we would have met in different incrumstances, 19 but I thank you for your time today. 20 (The following testimony was attached to 5:31PM 21 the end of the 30(b)(6) deposition as requested by 22 Counsel.)	4	specific YouTube app.	4	_
7 transcript, if you're good with that, Marc. 8 messages that results from that flow. 8 message that tresults from that flow. 8 mR. KAPLAN: I think that's fair. 9 Q Yes. And I think that's what you said 10 earlier, that you couldn't remember the specific 5:28PM 11 message name but there would be a message sent by 12 the sender device to the cast receiver in the cast 13 context for You'rube; is that right? 14 A Yes. I also mentioned there were different 15 layers. I know the message that are sent at the 5:29PM 16 You'rube layer, but at the sort of beneath You'rube, I 17 don't know. 18 Q Right. But I think we established that 19 there has to be some message that gets sent by the 20 sender device to the cast receiver instructing the 5:29PM 21 cast receiver to launch a specific You'rube app; 22 right? 23 A I suppose that's - something along the 24 lines of that, you know, would happen, but I don't 25 know. 26 Well, I don't want to keep you too long, 27 stranscript, if you're good with that, Marc. 8 MR. KAPLAN: I think that's fair. 9 BYMR. BOYEA: 10 Q Mit Mo, can you just tell me what exhibit? 5:31PM 11 A Exhibit's at Page 2. 12 Q All right. This is the page that has 13 Screenshord 3 and Screenshord 4; is that right? 14 A Yes. 15 Q So what did you want to talk about in this 5:32PM 16 exhibit? 17 A I was wondering if you could would you be 18 able to find or explain the content underneath this 19 untoplay section? 10 Q well, I don't want to keep you too long, 25 right? 26 insof familiar to me. So I kind of wanted to have 27 you speak to anybody during any of the breaks about 5:33PM 28 page 230 29 Let me ask you this, first, Mr. Mo: Did 5:33PM 29 page 230 20 Let me ask you this, first, Mr. Mo: Did 5:33PM 20 page 230 21 you speak to anybody during any of the breaks about 5:33PM 21 you speak to anybody during any of the breaks about 5:33PM 22 the substance of your testimony here? 23 A No. 24 the lit to launch a specific You'Tube app; right? 25 A I would believe so an iOS or Android context; 26 page 4 the sender that	5	·	5	
8 MR. KAPLAN: 1 think that's fair. 9 Q Yes. And I think that's what you said 10 earlier, that you couldn't remember the specific 5-28PM 11 message name but there would be a message sent by 12 the sender device to the cast receiver in the cast 13 context for YouTube, is that right? 14 A Yes. I also mentioned there were different 15 layers. I know the messages that are sent at the 5-29PM 16 YouTube gist that the sort of beneath YouTube, I 17 don't know. 18 Q Right. But I think we established that 19 there has to be some message that gets sent by the 20 sender device to the cast receiver instructing the 5-29PM 21 east receiver to launch a specific YouTube app; 22 right? 23 A I suppose that's something along the 24 lines of that, you know, would happen, but I don't 25 know. 26 Yes. 27 A I was wondering if you could would you be 28 you clarify the actual content underneath this 29 autoplay section? 20 I'm only asking because, again, I'm not 5:32PM 21 cast receiver to launch a specific YouTube app; 22 right? 23 A I suppose that's something along the 24 lines of that, you know, would happen, but I don't 25 know. 26 Yes. 27 A I was wondering if you could would you be 28 you clarify the actual content underneath this 29 autoplay section? 20 I'm only asking because, again, I'm not 5:32PM 21 of the work on YouTube Router app. So the UI 22 is not familiar to me. So I stin of owarted but it is not of wardet on the cast receiver to 23 A I suppose that's something along the 24 lines of that, you know, would happen, but I don't 25 know. 26 YouTube app. 27 A I was wondering if you could would you be 28 you clarify the actual content underneath this 29 autoplay section? 20 I'm only asking because, again, I'm not 5:32PM 21 I don't work on YouTube Router app. So the UI 22 is not familiar to me. So I stin of owardet but it is not familiar to me. So I stin of owardet but it is not familiar to me. So I stin of owardet but it is not familiar to me. So I stin of owardet but it is not familiar to me. So I stin	6		6	
9 BY Mr. BOYEA: 10 cardier, that you couldn't remember the specific 5:28PM 11 message name but there would be a message sent by 12 the sender device to the cast receiver in the cast 13 context for YouTube; is that right? 14 A Yes. Lako mentioned there were different 15 layers. Khow the messages that are sent at the 5:29PM 16 YouTube layer, but at the sort of beneath YouTube, I 17 don't know. 18 Q Right. But I think we established that 19 there has to be some message that gets sent by the 20 sender device to the cast receiver instrucing the 5:29PM 21 cast receiver to launch a specific YouTube app; right? 22 right? 23 A I suppose that's — something along the 24 lines of that, you know, would happen, but I don't know. 25 know. 26 Vell, I don't want to keep you too long, 5:29PM 27 Well, I don't want to keep you too long, 5:29PM 28 but I want to unpack this because I thought we had discussed this earlier but maybe not. 4 So the sender device running a YouTube app, right? 5 A Yes, something when tone way or another something. 6 Something has to be sent to the cast receiver to reliable to find or explain the content underneath this autoplay section? 2 I don't work on YouTube Music sender app. So the UI is not familiar to me. So I kind of wanted to have 2 you clarify the actual content underneath because I wight have had some missassumption about what it is. 25 Q Let me ask you this, first, Mr. Mo: Did 5:33PM Page 230 10 Q Right. And my question is: That's 5:30PM 6 something has to be sent to the cast receiver to 12 I don't work on YouTube app; right? 26 A Yes, Something went one way or another 9 somehow. 27 YouTube Music app. 28 A Yes, Something went one way or another 9 somehow. 39 Something gets sent to cause the cast receiver to 14 launch a YouTube app; right? 40 A Yes. 41 A Yes. 41 A Yes. 41 A Yes. 41 A Yes. 42 I don't work did you want to talk about in this 5:32PM 10 into or explain the content underneath this autoplay section? 42 I don't work on YouTube Music app. 43 Ok Let me ask you this, first, Mr. Mo: Did 5	7		7	transcript, if you're good with that, Marc.
10 Q Mr. Mo, can you just tell me what exhibit? 5:31PM 11 message name but there would be a message sent by 11 A Exhibit? 5 at Page 2. 12 Q he sender device to the cast receiver in the cast 13 Screenshot 3 and Screenshot 4; is that right? 14 A Yes. I also mentioned there were different 14 A Yes. 15 Q right. But I think we established that 16 there has to be soom emessage that gets sent by the 17 don't know. 18 Q Right. But I think we established that 18 there has to be soom emessage that gets sent by the 20 sender device to the cast receiver instructing the 5:29PM 21 cast receiver to launch a specific YouTube app; 27 right? 23 A I suppose that's something along the 24 lines of that, you know, would happen, but I don't 25 know. 5:29PM 2 but I want to unpack this because I thought we had 3 discussed this earlier but maybe not. 4 Q of the sender device running a YouTube 3 applicable both in the IOS and Android context; 12 right? When the sender is an iOS or Android device, 3 something gets sent to cause the cast receiver to 14 launch a Ypecific YouTube app; right? 4 A Yes. 15 Q So I don't know what more information I 25 4 A I want to unpack this because I thought we had 24 with the properties of the cast receiver to 4 Q Right. And my question is: That's 5:30PM 5 appearing below the autoplay is justmy understanding is its' additional songs that would be 8 appearing below the autoplay is unred off? 5:33PM 10 So from the user's perspective, if I 5:33PM 11 state and the want to work of the 30(b)(6) deposition as requested by 21 Q obes that refresh your recollection on 22 20 Counsel.) 22 Counsel.)			8	MR. KAPLAN: I think that's fair.
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25	23	THE WITNESS: I do have something that I	23	want to go over again or
24 was thinking at the last break over a screenshot in 24 A No. So I wasn't sure whether if I was	24	was thinking at the last break over a screenshot in	24	A No. So I wasn't sure whether if I was
25 particular that was presented to me. 5:31PM 25 thinking that everything down there was autoplay, just 5:34PM	25	particular that was presented to me. 5:31PM	25	thinking that everything down there was autoplay, just 5:34PM
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